

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane • Plymouth, MN 55447
PH: 763.553.1144 • email: judie@jass.biz
www.elmcreekwatershed.org

November 2, 2022

Representatives

and

Technical Advisory Committee Members
Elm Creek Watershed Management Commission
Hennepin County, Minnesota

*The meeting packet for this meeting may be
found on the Commission's website:*
[http://www.elmcreekwatershed.org/minutes-
-meeting-packets.html](http://www.elmcreekwatershed.org/minutes-
-meeting-packets.html)

Dear Representatives and Members:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, November 9, 2022, at 11:30 a.m.** in the Aspen Room at Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN. Directions are included below.

The Technical Advisory Committee (TAC) will meet at 11:00 a.m., prior to the regular meeting.

Please email me at judie@jass.biz to confirm whether you or your Alternate will be attending the regular meeting.

Thank you.



Judie A. Anderson

Administrator

JAA:tim

Encls: Meeting Packet

cc:	Alternates	Erik Megow	James Kujawa	Rebecca Carlson	Ed Matthiesen
	TAC Members	Karen Galles	Kris Guentzel	Kevin Ellis	Diane Spector
	City Clerks	Brian Vlach	BWSR	Met Council	MPCA
	Official Newspaper		DNR		

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The Plymouth Community Center is located at 14800 34th Avenue North in Plymouth, north of Plymouth City Hall. At the intersection of Highway 55 and Plymouth Boulevard, turn north on Plymouth Boulevard and proceed to 34th Avenue. Turn north (right) on 34th Avenue and proceed to the Community Center which is on the left side of the street. Turn left and proceed to the main (entry) parking lot. The Aspen Room is the first room on the left past the lobby inside the main entrance.

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

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AGENDA

Regular Meeting | November 9, 2022

The meeting packet may be found on the Commission's website: <http://elmcreekwatershed.org/minutes--meeting-packets.html>

Aspen Room, Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.

1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*
3. Open Forum.
4. Action Items.
 - a. Project Reviews.*
5. Old Business.
6. New Business.
 - a. Chloride Management Requirements.*
 - 1) Templates and Examples.*
 - b. MPCA Climate Resilience Grants.*
 - 1) RFP.*
7. Communications.
 - a. Staff Report.*
 - b. Hennepin County Staff Report.*
8. Education.
 - a. WMWA – next meeting – December 13, 2022, at 8:30 a.m., via Zoom.
9. Grant Opportunities and Updates.*
 - a. Dayton River Road Project.
 - 1) Good Stewart Grants.
 - 2) Commission Cost Share.
 - a) Cost Share Guidelines.*
 - b. WBIF Work Plan.
10. Project Reviews.

Item No.	E	A	I RPF	AR	Project No.	Project Name
			RP DD			
					W=wetland project	
ca.				AR	2014-015	Rogers Drive Extension, Rogers.
cb.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
cc.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.

*in meeting packet

**available at meeting or on website

cd.				AR	2017-014	Laurel Creek, Rogers.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
ce.				AR	2018-046	Graco, Rogers.
cf..				AR	2019-021	Brenly Meadows, Rogers.
cg.				AR	2019-026	Interstate Power Systems, Rogers.
ch.				AR	2020-009	Stetler Barn, Medina.
ci.				AR	2020-017	Meadow View Townhomes, Medina.
cj.				AR	2020-032	Enclave Rogers - Commerce Boulevard, Rogers.
ck.				AR	2020-033	Weston Woods, Medina.
cl.				AR	2020-036	Balsam Pointe, Dayton.
cm.				AR	2021-007	Birchwood 2nd Addition, Rogers
cn.				AR	2021-016	Territorial Lofts, Rogers.
co.				AR	2021-020	Crew Carwash, Maple Grove.
cp.				AR	2021-021	Territorial Triangle, Dayton.
cq.				AR	2021-023	Maple Grove Medial Office Building (MOB).
cr.				AR	2021-024	Riverwalk, Dayton
b.	A	E			2021-025	Hackamore Road Reconstruction, Medina/Corcoran.
cs.					2021-027	Xcel Energy Elm Creek Substation, Maple Grove
c.					2021-029	Tri-Care Grocery / Retail, Maple Grove
d.					2021-031	Cook Lake Edgewater, Maple Grove
e.					2021-034	BAPS Hindu Temple, Medina.
ct.					2021-035	Mister Car Wash - Rogers
cu.					2021-036	D & D Service, Corcoran.
f.					2021-037	Marsh Pointe, Medina.
g.					2021-038	Bellwether 6th/Amberly, Corcoran.
h.					2021-039	1-94 Logistics Center, Rogers.
cv.					2021-040	Napa Auto, Corcoran.
cw.					2021-041	Carlson Ridge, Plymouth.
i.					2021-043	Northwood Community Church Maple Grove.
j.					2021-044	Balsam II Apartments, Dayton.
k.					2021-046	Len Busch Roses, Plymouth
l.					2021-047	CR 10 Box Culvert Replacement, Corcoran
m.					2021-048	Bellwether - Newman West, Corcoran
n.					2021-049	Dayton Interchange Business Center, Dayton.
o.					2021-050	Evanswood, Maple Grove.
p.					2021-051	Fields of Nanterre Drainage Improvements, Plymouth.
q.					2021-052	Norbella Senior Living, Rogers.
r.					2021-053	Towns at Fox Creek, Rogers.
s.					2021-054	Stotts Family Farm Grassed Waterways, Corcoran.
t.					2021-055	Morningside Estates 6 th Addition, Champlin.
u.					2022-001	Dayton Field 2nd Addition, Dayton.
v.					2022-002	Summerwell, Maple Grove.
w.					2022-003	Fox Briar Ridge East, Maple Grove.
x.					2202-005	Bellwether 7 th , Corcoran.
y.					2022-006	Hamel Townhomes, Medina.
z.					2022-007	Weston Commons 2nd, Maple Grove.
aa					2022-008	Bechtold Farm, Corcoran.
ab.					2022-009	Dunkirk Lane Development, Plymouth.
ac.					2022-010	Unity Tool Building Addition, Dayton.
ad					2022-011	Arrowhead Drive turn Lane expansion,
ae					2022-012	Graco Building 2, Dayton.
af					2022-013	Dayton 94 Industrial Site, Dayton.
ag.					2022-014	Aster Mill, Rogers.

*in meeting packet

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ah.				2022-015	County Road 47 Phase I Reconstruction, Plymouth.
ai				2022-016	Rogers Activity Center, Rogers.
aj.				2022-017	City Center Drive, Corcoran.
ak.				2022-018	Big Woods, Rogers.
al.				2022-019	Grass Lake Preserve, Dayton.
am.				2022-020	Skye Meadows Extension, Rogers.
an.				2022-022	Cook Lake Highlands, Corcoran.
ao.				2022-023	Asguard, Rogers.
ap.				2022-024	Bridge No. 27J70, Maple Grove.
aq.				2022-025	Harvest View, Rogers.
ar				2022-026	Archway Building, Rogers
as				2022-027	Edison at Maple Grove Apartments.
at.				2022-028	Elsie Stephens Park, Dayton.
au.				2022-029	Hayden Hills Park, Dayton.
av.				2022-030	Garages Too, Corcoran.
aw.				2022-031	Corcoran II Substation.
ax.				2022-032	EC Stream Restoration Phase 5, Champlin.
ay.				2022-033	Pet Suites, Maple Grove.
az				2022-034	CSAH 101 Improvements, Maple Grove.
ba	A	E		2022-035	Rush Hollow, Maple Grove.
bb.				2022-036	West French Lake Road Improvements, Maple Grove.
bc.				2022-037	CSAH13 CR203 Culvert replacement, Dayton.
bd.				2022-038	Tavera North Side, Corcoran.
be.				2022-039	Garland Commons, Maple Grove.
bf.				2022-040	Karinieimi Meadows,
bg.				2022-041	Elm Creek Swim Pond culvert, Maple Grove.
bh.				2022-042	Walcott Glen, Corcoran.
bi.	A	E		2022-043	Meander Park and Boardwalk, Medina.
bj.				2022-044	Trail Haven Road Bridge Replacement, Corcoran.
bk.				2022-045	Corcoran Water Treatment Plant, Corcoran.
bl.	A	E		2022-046	Csah12 Culvert and Guardrail Replacement, Dayton.

A = Action item **AA** = Administrative Approval **AR** = awaiting recordation **D** = Project is denied **E** = Enclosure provided
I = Informational update will be provided at meeting **RPFI** = removed pending further information **R** = Will be removed
RP = Information will be provided in revised meeting packet

11. Other Business.

12. Adjournment.

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MINUTES Regular Meeting October 12, 2022

I. A meeting of the Elm Creek Watershed Management Commission was called to order at 11:37 a.m., Wednesday, October 12, 2022, in the Aspen Room, Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN, by Chair Doug Baines.

Present were: Bill Walraven, Champlin; Ken Guenther, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Terry Sharp, Medina; Catherine Cesnik, Plymouth; and David Katzner, Rogers.

Also present: Heather Nelson, Champlin; Kevin Mattson, Corcoran; Nico Cantarero, Stantec, Dayton; Derek Asche, Maple Grove; Matt Danzl, Hakanson-Anderson, Medina; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; Diane Spector and Erik Megow, Stantec; James Kujawa, Surface Water Solutions; Kris Guentzel and Kevin Ellis, Hennepin County Environmental Services (HCEE); Brian Vlach, Three Rivers Park District; and Judie Anderson, JASS.

A. Motion by Walraven, second by Sharp to approve the **agenda** with the removal of Item 5.a. Fund Balance/Reserve Policy Update.* *Motion carried unanimously.*

B. Motion by Walraven, second by Guenther to approve the **Minutes*** of the September 14, 2022, regular meeting and public hearing. *Motion carried unanimously.*

C. Motion by Guenther, second by Sharp to approve the October **Treasurer's Report** and **Claims*** totaling \$73,141.79. *Motion carried unanimously.*

II. Open Forum.

III. Project Reviews.

A. **2017-050 Ernie Mayers Wetland/Floodplain Violation, Corcoran.*** The City of Corcoran contacted the Commission in 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held to assess the nature and extent of the violations and a restoration order was issued to Mayers. In 2018, an appeal of the restoration order was received by the Board of Water and Soil Resources. BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers. The parties came to an agreement to resolve the violation in 2021. The agreement was signed by BWSR, Corcoran and Mayers.

Kujawa provided background information on this project and the materials in the packet. The City of Corcoran has agreed to facilitate a meeting prior to next month's Commission meeting to provide Commission staff with information on the negotiated agreement and how this project can move forward to resolve the Commission's floodplain concerns. This information will be provided in next month's staff report.

B. **2022-039 Garland Commons, Maple Grove.*** The project consists of a multi-family building with associated parking, landscaping, utility and stormwater best management practices. It will disturb 4.8 acres of a 6.2 acre site and result in 1.8 acres of new impervious surface. The project triggers

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

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Rules D, E, and I. Staff's review and findings dated September 19, 2022, are in this month's packet. Staff recommends approval conditioned on 1) reconciliation of the escrow fee balance and 2) an operation and maintenance plan approved by the City of Maple Grove. Motion by Trainor, second by Walraven to approve Staff's recommendations. *Motion carried unanimously.*

C. 2022-042 Walcott Glen, Corcoran.* This is a 40-acre parcel located in the northwest quadrant of the intersection of Hackamore Road and CR 101 (Brockton Lane). The site will be developed into a residential area with 10.8 acres of new impervious area including homes, driveways, roads, and sidewalks, as well as a playground area. Staff's review and findings dated October 5, 2022, are in this month's packet. Staff recommends approval conditioned upon 1) the escrow balance being reconciled to the satisfaction of the Commission Administrator. 2) notice of wetland replacement plan approval being provided to the Commission. Prior to grading the wetland, a replacement plan must be approved by the LGU. 3) the applicant entering into a stormwater maintenance agreement with the City of Corcoran. The City's template stormwater maintenance agreement satisfies the requirements of the Commission. and 4) the City approving the final emergency overflow design for wetland H4 and that design being approved by Commission Staff. Motion by Trainor, second by Guenthner to approve Staff's recommendations. *Motion carried unanimously.*

D. 2022-044 Trail Haven Road Bridge L9384 Replacement, Corcoran.* This project is on the North Fork of Rush Creek at Trail Haven Road, approximately one-half mile south of CR 117. The City of Corcoran is proposing to replace the existing 52' long 90" x 139" CMP arch culvert with a 10' wide x 6' high concrete box culvert on Trail Haven Road. Draft findings are included in this month's packet. Staff provided a final recommendation for conditional approval at the meeting, to wit, 1) the escrow balance must be rectified to the satisfaction of the Commission Administrator and 2) the following documentation must be provided: (a) current photographs of the existing channel to approximately 250 feet downstream of the proposed culvert invert, (b) detail of the proposed riprap design below the culvert, (c) MN DNR and WCA permits, and (d) general concurrence to assist private landowners downstream of this project if streambank erosion occurs as a result of this culvert replacement project. Motion by Trainor, second by Walraven to approve Staff's recommendations. *Motion carried unanimously.*

IV. Old Business.

V. New Business.

A. Boundary Revisions.* The Commission has been notified by the Shingle Creek and West Mississippi WMOs (SCWM) that they are in the process of updating their hydrologic and legal boundaries and are requesting review and concurrence from the adjoining WMOs, including Elm Creek. The original legal boundary was established in the early 1980s using the best information available at that time, which included basic hydrologic and hydraulic (H&H) modeling and USGS 10-foot topographic mapping.

Since that time finer resolution topography has become available, as is more refined H&H modeling and storm sewer/drainage network information, to establish the hydrologic boundaries more accurately. There are many locations where the newer hydro boundary does not match the original hydro boundary. West Mississippi never established a hydro boundary; the legal boundary just followed the Elm boundary. In addition, the legal boundaries were drawn to parcel boundaries, and many of the larger agricultural parcels have since subdivided into new developments with new drainage patterns, leaving many parcels on the edges of the watersheds in the wrong watershed.

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Some of the reasons it is desirable to have legal boundaries that match hydro boundaries as closely as possible include:

1. The annual operating budget is funded primarily from city assessments, and each individual city's share of those assessments is based on its share of the taxable market value of property in the watershed. Hennepin County computes these numbers by adding up the taxable market value of every parcel within each city in the watershed, so assigning each parcel to its proper watershed makes for a fairer division of assessments between cities.
2. Each of the affected watersheds annually certify capital project levies, which are spread as a special district tax over all the property in the watershed. Assigning each parcel to its proper watershed helps to assure that property owners are being taxed only for the projects in the watershed to which it drains.

The SCWM engineer has used the recent HUC 8 study and other H & H modeling as well as storm sewer network and project review plans to propose a revised new hydro boundary. The cities in Elm Creek that are also in SCWM have been working with the SCWM engineer to ground-truth the boundaries. The new proposed legal boundary conforms closely to the hydro boundary. However, the engineer developed certain rules to guide how that boundary is drawn to smooth the lines, follow parcel and right of way boundaries, and handle various oddball situations, so that there will be some differences between the proposed hydro and legal boundaries. The draft boundaries can be viewed at [SCWM Legal Boundary Review - PUBLIC \(arcgis.com\)](#).

The SCWM Commissions have asked Elm Creek to review the proposed boundaries and issue a formal resolution of concurrence by November 30, 2022. It is Staff's recommendation that the cities that abut the Shingle Creek and West Mississippi watersheds review and finalize those proposed boundaries so that the Commission can review and consider such a resolution at the November 10, 2022, meeting. Sample letters of concurrence* are included in the meeting packet.

B. Dayton Cost share Project.* In early September Ed Matthiesen from Stantec; Jason Quisberg, Dayton City Engineer, also from Stantec; and several County staff met with two property owners on 16630/16750 Dayton River Road. The County will be doing roadwork, replacing several culverts and stabilizing ravines along this highway in 2023. Runoff from an area south of the road across from their houses is conveyed to the north side by a culvert under the roadway. The County plans on widening the road, replacing the culvert and extending and adding pipe. The two property owners' concern is the existing channel degradation on the intermittently flowing pipe and the expectation that it may get worse as development across from their properties increases runoff to the culvert.

It is the staffs' conclusion that the culvert extension itself likely will not increase flow, but it will direct it into the opposite bank and increase the efficiency of flow. There are several feet of fall to the River so, with future increased flow, continued head cutting will occur, increasing erosion and sedimentation to the River. Hennepin County does not intend to include stabilization of this private channel in its project but would be willing to contribute financially to the cost of stabilizing this channel which, by quick estimate, would be about \$50,000. The City of Dayton has agreed to take the lead on this project and expects to request cost-share funds from the Commission. The City would like to have its engineering consultant, which is Stantec, prepare a design and cost estimate to submit to the Commission and County for cost share.

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The purpose of this discussion is to avoid conflicts of interest up front and request the approval of the Commission to complete this work. Since Erik Megow will likely be working with Quisberg on this project, Staff would ask Jim Kujawa or Rebecca Carlson to review the work and cost share application and make a recommendation to the Commission as to whether it should be funded. The Technical Advisory Committee (TAC) reviewed this request at its meeting today and recommends to the Commission that it proceed per the above stipulation. Motion by Guenthner, second by Trainor to proceed with the cost share application based on the TAC's recommendation. *Motion carried unanimously.*

VI. Communications.

A. Staff Report.* Staff reports provide updates on the development projects currently under review by Staff. The projects listed in the table beginning on page 6 of these minutes are discussed in the October 5, 2022, report.

B. Hennepin County Staff Report.*

1. Program updates.

a. Lake Jubert Agricultural BMPs. County Staff and EOR met with the landowner for a pre-construction meeting. An updated cost-estimate of work was provided. Work has begun on waterways that are part of the 1A projects and should be completed sometime in late October/early November. EOR is currently redeveloping the WASCOB that is included in 1B and preliminary plans have been approved by the landowner. Construction may be able to start this year, depending on permitting needs.

b. 13861 129th Ave N., Dayton. Construction on the roof component on the manure bunker is moving forward. Project should be completed before winter 2022.

c. 9945 Sundance Road. The landowner has agreed to install manure bunker, barn gutters, and livestock waterers. The State cost-share contract was signed and approved. Construction will begin the week of October 10th.

d. Diamond Hill Stables. Landowners are currently working through cost-share process to install barn gutters which will help reduce mud and erosion in high traffic alleys directly adjacent to the stables. They are also currently working with Katie Evans of NRCS to develop a grazing plan and make paddock upgrades.

e. 10000 Ebert Road. County staff have completed additional survey work and developed initial design elements in late September for potential wetland restorations on the property. These design elements will be imported in CAD in October to develop a 60% design. County staff plan to engage permitting authorities in October as well. The landowner is also working with US Fish & Wildlife to restore several other wetlands on the property.

2. Applications for **Good Steward Grants** are being accepted through November 15, 2022. These grants support smaller, community-based or single applicant projects, such as constructing rain gardens, stabilizing stream banks, restoring native vegetation, installing vegetated filter strips, or implementing other best management projects. The typical funding amount is \$5,000 to \$15,000. See the [Good Steward Grant Guidelines \(PDF\)](#) for more information. Application materials are posted on the [Hennepin County Supplier Portal](#). All applications must be submitted through the Supplier Portal.

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Two optional online workshops were held early in October for potential applicants to learn more about the program, application requirements, and how to submit their application. A recording of these workshops is posted to the [Natural Resource Grants website](#).

3. Hennepin County is again offering facility tours at the Brooklyn Park Transfer Station. The drop-off facility provides an opportunity for residents to properly manage household hazardous waste, recyclables, organics, and problem materials such as computers, TVs and appliances. Tours describe how the facility works and highlight the importance of reducing, reusing, recycling and preventing pollution. Tours are available for youth and adult groups. Complete the Brooklyn Park Transfer Station tour request calendar and form to request a tour for your group.

4. **Paul Stewart** has left his position at the County. It had been recommended at the September meeting that the Commission write a letter to the County recommending that this position be made full-time. Currently, the position is being filled using funds from a BWSR grant as compensation. Staff will seek the name of the individual at the County to whom a letter should be sent recommending this position become full time in the future.

VII. Education and Public Outreach.

A. The **West Metro Water Alliance (WMWA)** will meet via Zoom at 8:30 a.m., November 8, 2022.

At the October meeting the members continued to discuss the joint County/WMWA education and outreach coordinator position and how that work might proceed. They noted that PREP educator Jessica Sahu Teli continued to be busy with several schools this fall.

B. Commissioner Cesnik attended the **2022 Salt Symposium** and found the presentations informative. Many of those presentations were high-level research or policy or were specifically oriented toward cities and counties and other road maintenance operators. There are other chloride-related topics that have come up recently that the Commission could explore or discuss further, either at TAC or regular meetings.

1. For some of the recent project reviews the Commissioners have asked that a provision be added recommending the developer or some other party consider developing a **salt management plan** to reduce potential chloride impacts. There are some WMOs in the Metro that do require this with their stormwater permits, with mixed success. In addition, the Hennepin County Chloride Initiative (HCCI) has developed voluntary salt management plan templates that are available for use by WMOs, cities, private parties, etc. The Commission has not yet reviewed those templates or discussed how they might be used.

2. The HCCI is just completing development of its marketing campaign **Low Salt No Salt Minnesota**. Besides the logo and tag, there are short videos and other marketing materials. The intent was to first target HOAs and faith-based groups, but this is information that is more broadly applicable. As that campaign moves to implementation, the TAC and Commissioners can discuss future roles and responsibilities.

It was recommended that the TAC define the role of the Commission in chloride matters. *Query: How does this impact the cities regarding TMDLs?*

VIII. Grant Opportunities and Project Updates.

During the **Watershed Based implementation Funding (WBIF)** process there was \$92,274 in remaining funds that was designated for “priority assessments.” To date, only two assessments have been proposed: Corcoran has proposed completing a South Fork Rush Creek SWA similar to the previous Rush Creek Headwaters SWA and Dayton has proposed further investigating the feasibility of a natural channel restoration of the Diamond Lake outlet channel to Diamond Creek. The estimated cost of a SWA, based on the cost of the Headwaters SWA, is \$65,000. There was no estimate of cost prepared for the channel restoration feasibility study. No other assessments were advanced by cities.

If the TAC and Commission elect to go forward with the South Fork SWA, the grant would fund \$59,090 of the project, leaving a balance \$33,184 to be allocated. The Diamond Creek SWA included a high-level estimate of cost for construction of the project (\$400,000 excluding land) based on a conceptual design, but more detailed survey and design work has not been completed. The \$33,184 is likely more than what would be required for a second project.

IX. Other Business.

Vlach reported that **Zebra mussels have been identified in Fish Lake**, primarily located in the center of the lake. None have been seen at the access to the lake. He will have more information in November.

X. Adjournment. There being no further business, the meeting was adjourned at 1:06 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

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Project No.	Project Name
W=wetland	
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2021-051	Fields of Nanterre Drainage Improvements, Plymouth.
2021-052	Norbella Senior Living, Rogers.
2021-053	Towns at Fox Creek, Rogers.
2021-054	Stotts Family Farm Grassed Waterways, Corcoran.
2021-055	Morningside Estates 6 th Addition, Champlin.
2022-001	Dayton Field 2nd Addition, Dayton.
2022-002	Summerwell, Maple Grove.
2022-003	Fox Briar Ridge East, Maple Grove.
2022-005	Bellwether 7 th , Corcoran.
2022-006	Hamel Townhomes, Medina.
2022-007	Weston Commons 2nd, Maple Grove.
2022-008	Bechtold Farm, Corcoran.
2022-009	Dunkirk Lane Development, Plymouth.
2022-010	Unity Tool Building Addition, Dayton.
2022-011	Arrowhead Drive turn Lane expansion,
2022-012	Graco Building 2, Dayton.
2022-013	Dayton 94 Industrial Site, Dayton.
2022-014	Aster Mill, Rogers.
2022-015	County Road 47 Phase I Reconstruction, Plymouth.
2022-016	Rogers Activity Center, Rogers.
2022-017	City Center Drive, Corcoran.
2022-018	Big Woods, Rogers.

RULE D - STORMWATER MANAGEMENT
 RULE E - EROSION AND SEDIMENT CONTROL
 RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
 RULE H - BRIDGE AND CULVERT CROSSINGS
 RULE I - BUFFERS

*indicates enclosure

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

elm creek Watershed Management Commission

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2022-019	Grass Lake Preserve, Dayton.
2022-020	Skye Meadows Extension, Rogers.
2022-022	Cook Lake Highlands, Corcoran.
2022-023	Asguard, Rogers.
2022-024	Bridge No. 27J70, Maple Grove.
2022-025	Harvest View, Rogers.
2022-026	Archway Building, Rogers
2022-027	Edison at Maple Grove Apartments.
2022-028	Elsie Stephens Park, Dayton.
2022-029	Hayden Hills Park, Dayton.
2022-030	Garages Too, Corcoran.
2022-031	Corcoran II Substation.
2022-032	EC Stream Restoration Phase 5, Champlin.
2022-033	Pet Suites, Maple Grove.
2022-034	CSAH 101 Improvements, Maple Grove.
2022-035	Rush Hollow, Maple Grove.
2022-036	West French Lake Road Improvements, Maple Grove.
2022-037	CSAH13 CR203 Culvert replacement, Dayton.
2022-038	Tavera North Side, Corcoran.
2022-039	Garland Commons, Maple Grove.
2022-040	Karinieimi Meadows,
2022-041	Elm Creek Swim Pond culvert, Maple Grove.
2022-042	Walcott Glen, Corcoran.
2022-043	Meander Park and Boardwalk, Medina.
2022-044	Trail Haven Road Bridge Replacement, Corcoran.

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

*indicates enclosure

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	Oct 2022	Nov 2022	2022 Budget YTD
EXPENSES					
Administrative		95,000	8,777.98	9,155.24	96,863.44
Grant Writing		500			0.00
Website		3,000	70.75	29.40	611.50
Legal		2,000			682.00
Audit		6,000			6,700.00
Insurance		3,800			3,765.00
Meeting Expense					1,250.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		12,000			8,648.96
Floodplain Mapping		0			45,156.75
Project Review Technical		107,500	12,991.25	3,672.50	175,302.00
Other Technical		77,500	4,970.63	5,703.25	70,884.80
Project Reviews - Admin Support		15,000	3,378.38	1,722.14	20,089.08
WCA - Admin		0	1.22		1.22
Stream Monitoring USGS		24,000	12,500.00		12,500.00
Stream Monitoring TRPD		9,345			0.00
DO Longitudinal Survey		1,200			0.00
Rain Gauge		420	34.35	31.37	311.63
Lakes Monitoring - CAMP		840			0.00
Lakes Monitoring - TRPD					0.00
Sentinel Lakes		8,460			0.00
Additional Lake		1,352			0.00
Aquatic Vegetation Surveys		1,300			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		2,500	32.25		1,191.19
WMWA General Activities		5,000		3,000.00	3,000.00
WMWA Implementation/Watershed Prep		4,500		2,000.00	2,000.00
Rain Garden Wkshops/Intensive BMPs/Special Proj		2,000		2,000.00	2,000.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Studies / Project ID / SWA		0			0.00
CIPs General		3,000	137.83	67.41	1,182.24
Rush Creek SWA Implementation		106,050			
Plan Amendment		2,000			1,157.92
Contribution to 4th Gen Plan		12,500			0.00
Transfer to (from) Capital Projects (see CIP Tr		291,638	30,247.15	68,826.19	249,073.34
Transfer to (from) Cash Sureties (see below)			-	-	504.11
Transfer to (from) Grants (see below)		125,000	-	-	70,788.12
To Fund Balance					0.00
TOTAL - Month			73,141.79	96,207.50	773,663.30
TOTAL Paid in 2022, incl late 2021 Expenses		931,405.00	763,182.31	859,389.81	2022 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2022 Budget	Oct 2022	Nov 2022	2022 Budget YTD
INCOME					
Project Review Fee		107,500	4,458.25		148,861.30
Refund Project Fee					(466.05)
Nonrefundable Admin		15,000	400.00		12,550.00
Nonrefundable Technical		16,125	600.00		18,825.00
Water Monitoring - TRPD Co-op Agmt		6,000			0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		5,250	3,392.61		13,103.77
Transfer to (from) Capital Projects (see CIP Tr		291,638			152,142.02
Transfer to (from) Grants (see below)		125,000	-	-	67,243.00
Rush Creek SWA Implementation		79,537			
Transfer from Assigned Fund Balance		26,513			
Misc Income / Contingency		10,750			0.00
From Unrestricted Cash Reserves		10,792			0.00
Total - Month			8,850.86	0.00	649,559.04
TOTAL Rec'd 2022, incl late 2021 Income		931,405.00	659,010.03	659,010.03	2022 Received
CASH SUMMARY					
		Balance Fwd			
Checking		0.00			
4M Fund		1,503,168.70	1,398,996.42	1,302,788.92	
Cash on Hand			1,398,996.42	1,302,788.92	
Claims Presented		General Ledger Account No	October	November	TOTAL
Campbell Knutson - Legal		521000			0.00
Legal - Proj Rev (Admin) Skye Meadows		578100			
Legal - WCA		579200			
Connexus - Rain Gauge		551100		31.37	31.37
City of Maple Grove - Everest Lane Strm Stabi		563025		68,826.19	68,826.19
Shingle Creek WMO - WMWA					7,000.00
2022 WMWA General Expense		590001		3,000.00	
2022 WMWA Watershed PREP		590001		2,000.00	
2022 WMWA Special Projects		590001		2,000.00	
Surface Water Solutions					3,306.25
Project Review Technical		578050		2,431.25	
Other Technical		578050		875.00	
Stantec					6,069.50
Project Review Technical		578050		1,241.25	
Other Technical		578050		4,828.25	
JASS					10,974.19
Administration		511000		8,347.59	
TAC Support		511000		807.15	
Website		581000		29.40	
Project Reviews		578100		1,586.34	
Project Reviews - Project Specific Admin		578100		135.80	
HUC-8 -Floodplain Mapping Admin		580430		0.50	
Education		590000			
CIPs General		563001		67.41	
TOTAL CLAIMS					96,207.50



12800 Arbor Lakes Parkway, Maple Grove, MN 55369-7064

763-494-6000

October 21, 2022

Ms. Judie Anderson
Elm Creek Watershed Management Commission
3235 Fernbrook Lane North
Plymouth, MN, 55447

SUBJECT: EVEREST LANE STREAM STABILIZATION REIMBURSEMENT
CITY OF MAPLE GROVE, PROJECT NO. 20-08

Dear Judie,

Enclosed are invoices from WSB & Associates and Sunram Construction, Inc. for the Everest Lane Stream Stabilization Project totaling \$257,481.05. The City of Maple Grove is requesting reimbursement of \$125,000.00 less Commission expenses per the terms of the Cooperative Agreement for the Everest Lane Stream Stabilization Project.

Please let me know if you have any questions. Thank you for funding this important project.

Sincerely,

Derek Asche
Water Resources Engineer
City of Maple Grove

enc

LEVY FUNDS RECEIVED TO-DATE	\$69,012.25
WATERSHED EXPENSES TO-DATE	(186.06)
TOTAL THIS PAYMENT	\$68,826.19



Account Number:
481113-238425

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Oct 17, 2022

Previous Balance	\$34.35
Payments - Thank You!	\$34.35
Balance Forward	\$0.00
New Charges	\$31.37

Total Amount Due **\$31.37**

Payment must be received on or before November 13, 2022

Total Amount Due

\$31.37

Due Date

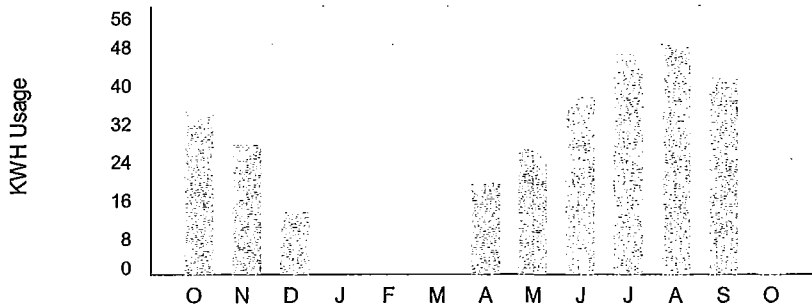
November 13, 2022

Message Center

2022 Rebate Reminder

Rebates maybe available for technological or other high-efficiency electricity improvements you may be considering. Don't delay, contact businessaccounts@connexusenergy.com. Rebate deadline is November 15, 2022.

Energy Comparison Previous Months' Usage Current Month's Usage



How to contact us

Member Services / Moving - 763-323-2650
Outages and Emergencies - 763-323-2660
Hearing/Speech Impaired Call - 711 or 800-627-3529
Email: info@connexusenergy.com
www.connexusenergy.com
Gopher State One Call - 811
14601 Ramsey Boulevard, Ramsey, MN 55303

▼ Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy ▼

TRA3-D-006986/006309 VG1QKR S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$31.37

Payment Due By

November 13, 2022

006986 1 AB 0.488 002994/006986/006309 023 02 VG1QKR
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy
PO Box 1808
Minneapolis, MN 55480-1808

Comments

Surface Water Solutions LLC
6533 Neddersen Circle
Brooklyn Park, MN 55445-3206
952-456-4091
surfacewatersolutions@outlook.com

Stantec Project #

Invoice Date: **October 14, 2022**
Invoice Number: **2022-09**

Type	Date	Hours	Job	Task	Memo	Amount	Paid	Column
ECVMC	9/12/2022	2.00	Project Reviews	2022-042	project review	250.00		
ECVMC	9/13/2022	1.00	Project Reviews	2022-042	project review	125.00		
ECVMC	9/14/2022	0.40	Project Reviews	2021-025	project discussion w/ EM	50.00		
ECVMC	9/14/2022	2.50	Technical Services	Meetings	EC meeting + preparation work	312.50		
ECVMC	9/15/2022	4.00	Project Reviews	2022-042	Project review/findings	500.00		
ECVMC	9/16/2022	0.50	Project Reviews	2022-042	Project review/findings/email	62.50		
ECVMC	9/21/2022	2.00	Project Reviews	2022-044	project review	250.00		
ECVMC	9/26/2022	2.75	Project Reviews	2022-042	Project review/findings/email	343.75		
ECVMC	9/26/2022	1.00	Project Reviews	2022-044	Project review/phone calls	125.00		
ECVMC	9/27/2022	1.00	Project Reviews	2022-042	Project review/findings/email	125.00		
ECVMC	9/28/2022	0.50	Project Reviews	2022-044	conference call w/ project engineer	62.50		
ECVMC	9/30/2022	0.50	Technical Services	General	general emails/phone calls/file mgmt	62.50		
ECVMC	9/30/2022	2.00	Project Reviews	2022-044	Project review and findings.	250.00		
ECVMC	10/4/2022	1.80	Project Reviews	2022-042	Project review and findings	225.00		
ECVMC	10/5/2022	1.00	Technical Services	Meetings	staff report and updates	125.00		
ECVMC	10/5/2022	0.50	Project Reviews	2017-050	email correspondence to BWSR	62.50		
ECVMC	10/12/2022	3.00	Technical Services	Meetings	TAC and Regular meeting attendance and follow up	375.00		
ECVMC						0.00		
Total						3,306.25		



INVOICE

Page 1 of 3

Invoice Number	1998869
Invoice Date	November 3, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Bill To

Elm Creek Watershed Management Commission
Accounts Payable
3235 Fernbrook Lane
Plymouth MN 55447
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	Elm Creek '22 Technical Services		
	Project Manager	Megow, Erik Robert	Contract Upset
	Current Invoice Total (USD)	6,069.50	234,000.00
			Amount Billed to Date
			196,932.63
			For Period Ending
			October 28, 2022

Accounting to email att: Judie Anderson at judie@jass.biz; Beverly@jass.biz

Top Task	100	2022 Prereviews and General Inquiries
Low Task	100	2022 Prereviews and General Inquiries

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Kemmitt, Kathrine Lee (Katie)	2.50	135.00	337.50
Megow, Erik Robert	3.00	165.00	495.00
Subtotal Professional Services	5.50		832.50

Low Task Subtotal	2022 Prereviews and General Inquiries	832.50
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Top Task Subtotal	2022 Prereviews and General Inquiries	832.50
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Top Task	200	2022 Project Reviews
Low Task	200.2021.025	Hackamore Road

Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Megow, Erik Robert	0.50	165.00	82.50
Subtotal Professional Services	0.50		82.50

Low Task Subtotal	Hackamore Road	82.50
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Low Task	200.2022.039	Garland Commons
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Professional Services

Category/Employee	Current Hours	Rate	Current Amount
Krautmann, Kurt Thompson	1.50	120.00	180.00
Megow, Erik Robert	0.50	165.00	82.50
Subtotal Professional Services	2.00		262.50

Invoice Number	1998869
Invoice Date	November 3, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Low Task Subtotal	Garland Commons	262.50
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Low Task	200.2022.042	Walcott Glen, Corcoran
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.50	165.00	82.50
	Subtotal Professional Services	<u>0.50</u>		<u>82.50</u>

Low Task Subtotal	Walcott Glen, Corcoran	82.50
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Low Task	200.2022.043	Meander Park and Boardwalk
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Krautmann, Kurt Thompson	0.25	120.00	30.00
	Megow, Erik Robert	0.50	165.00	82.50
	Subtotal Professional Services	<u>0.75</u>		<u>112.50</u>

Low Task Subtotal	Meander Park and Boardwalk	112.50
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Low Task	200.2022.044	Trail Haven Rd Bridge L9384 Replacement
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	3.75	165.00	618.75
	Subtotal Professional Services	<u>3.75</u>		<u>618.75</u>

Low Task Subtotal	Trail Haven Rd Bridge L9384 Replacement	618.75
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Low Task	200.2022.045	Corcoran Water Treatment Plant
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.25	165.00	41.25
	Subtotal Professional Services	<u>0.25</u>		<u>41.25</u>

Low Task Subtotal	Corcoran Water Treatment Plant	41.25
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Low Task	200.2022.046	CSAH 12 Culvert Guardrail Replace, Ravine Stabilization
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Professional Services



INVOICE

Page 3 of 3

Invoice Number	1998869
Invoice Date	November 3, 2022
Purchase Order	--
Customer Number	167501
Project Number	227704774

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	0.25	165.00	41.25
	Subtotal Professional Services	<u>0.25</u>		<u>41.25</u>
Low Task Subtotal	CSAH 12 Culvert Guardrail Replace, Ravine Stabilization			41.25
Top Task Subtotal	2022 Project Reviews			1,241.25
Top Task	300 Meetings			
Low Task	300 Meetings			
Professional Services				
Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	5.00	165.00	825.00
	Spector, Diane F	4.00	187.00	748.00
	Subtotal Professional Services	<u>9.00</u>		<u>1,573.00</u>
Low Task Subtotal	Meetings			1,573.00
Top Task Subtotal	Meetings			1,573.00
Top Task	400 Other Technical Services			
Low Task	400.4000.001 General			
Professional Services				
Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	2.50	165.00	412.50
	Spector, Diane F	10.75	187.00	2,010.25
	Subtotal Professional Services	<u>13.25</u>		<u>2,422.75</u>
Low Task Subtotal	General			2,422.75
Top Task Subtotal	Other Technical Services			2,422.75
Total Fees & Disbursements				<u>6,069.50</u>
INVOICE TOTAL (USD)				6,069.50

Due upon receipt or in accordance with terms of the contract



**3235 Fernbrook Lane N
Plymouth MN 55447**

Bassett Creek Watershed Management Commission
Elm Creek Watershed Management Commission
Shingle Creek Watershed Management Commission
West Mississippi Watershed Management Commission

10/14/22

2021 WMWA General Expense, Watershed PREP and Special Projects

[illegible]



2-Nov-22

Administrative		65.00	0.00		
Administrative	65.940	70.00	4,615.80		
Admin - offsite	1.580	75.00	118.50		
Office Support	16.00	200.00	3,200.00		
Storage Unit - .47	1.00	169.67	169.67		
Data Processing/File Mgmt		65.00	0.00		
Drop Box Subscription			0.00		
Archiving			0.00		
Admin - Reimbursable Expense	243.62	1.00	243.62	8,347.590	
Admin - TAC support	9.92	70.00	694.40		
Admin - TAC support	1.42	75.00	106.50		
TAC Support - Reimbursable Expense	6.25	1.00	6.25	807.150	
Website			0.00		
Website	0.42	70.00	29.40		
Website - Zoom			0.00		
Website - Reimbursable Expense		1.00	0.00		
Web Domain, hosting			0.00	29.400	
Project Reviews - Secre			0.00		
Project Reviews - Admin Specific	1.94	70.00	135.80	135.800	specific
Project Reviews - Admin	21.80	70.00	1,526.00		
Project Reviews - Admin offiste			0.00		
Project Reviews - Admin - File Mgmt			0.00		
Project Reviews - Reimbursable Expense	60.34	1.00	60.34	1,586.340	nonspecific
WCA - Secre			0.00		
Floodplain Mapping - Admin		70.00	0.00		
Floodplain Mapping - Virtual			0.00		
Floodplain Mapping - reimbursable	0.50	1.00	0.50	0.500	
Education - Secretarial			0.00		
Education - Admin			0.00		
Education - Admin virtual - Blue Thumb Partner Event		75.00	0.00		
Education - Reimbursable Expense			0.00	0.000	
CIPs - General - Secretarial			0.00		
CIPs - Administrative	0.95	70.00	66.50		
CIPs- Offsite Admin			0.00		
CIPs - reimbursables	0.91	1.00	0.91	67.410	
Invoice Total			10,974.190		

elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

Hackamore Road Reconstruction – Interim Condition Corcoran/Medina Project #2021-025

Project Overview:

Location: This is a 1.3-mile reconstruction of Hackamore Road between County Road 16 and County Road 101, on the municipal border of Corcoran and Medina.

Purpose: The applicant is proposing to widen the road, add turn lanes, pedestrian features, and utility improvements. The proposed linear project creates 4.4 acres of new impervious surfaces. The project drains to Elm Creek and relies on existing and proposed developments adjacent to the project to meet Commission requirements. ***This review is an update of the accepted Conceptual Plan, approved at the October 13, 2021, Commission Meeting. This review quantifies interim (75%) conditions and outlines the increased runoff rates, volumes, total suspended solids, and total phosphorus loads that are expected during the interim conditions until two adjacent developments are constructed and provide the remaining treatment.***

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
	X	Rule G	Wetland Alteration
	X	Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips

Applicant:	City of Corcoran, City of Medina	Attention:	Kevin Mattson, Dusty Finke
Address:	Corcoran City Hall, Medina City Hall	Phone:	763-400-7028, 763-473-8846
		Email:	kmattson@ci.corcoran.mn.us dusty.finke@medinamn.gov

Agent:	WSB Engineering	Attention:	Earth Evans, PE
Address:	701 Xenia Avenue S, Suite 300 Minneapolis, MN 55416	Phone:	612-437-5629
		Email:	EEvans@wsbeng.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	July 7, 2021
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	July 7, 2021
	<input checked="" type="checkbox"/> City authorization: Medina, Corcoran	July 7, 2021
	<input checked="" type="checkbox"/> Review fee: \$5,400	July 7, 2021
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	Sept. 22, 2022

Submittals

1. *Elm Creek Watershed Management Commission Project Review Fee Schedule*
2. Hackamore Road Improvement Project 75% Design Plan from WSB & Associates, dated May 13, 2022.
3. *Hackamore Road Final Design Update Memo* from WSB & Associates, dated July 27, 2022. Revised August 9, 2022.
 - a. *Stormwater narrative*
 - b. *Existing Conditions Drainage Map*, prepared by WSB & Associates, not dated
 - c. *Proposed Conditions Drainage Map*, prepared by Kimley-Horn, not dated
 - d. *Existing HydroCAD model run for the 2-, 10-, and 100-year events*, dated July 27, 2022. Revised August 9, 2022.
 - e. *Proposed HydroCAD model run for the 2-, 10-, and 100-year events*, dated July 27, 2022. Revised August 9, 2022.
 - f. *MIDS Model, Existing and Proposed Conditions*, dated July 27, 2022. Revised August 9, 2022.
4. *Hackamore Road ECWMC Permit Comment Response Memo(s)* from WSB & Associates, dated August 24, and August 30, 2022.
 - a. *Freeboard and HWL analysis.*
 - b. *Interim Design Street & Storm Sewer Plans*
5. *Reserve Pond 2 Clarification Memorandum and P8 Modeling* from WSB & Associates, dated September 21, 2022
6. *Minnesota Wetland Conservation Act – Joint Application*, prepared by WSB & Associates, dated October 26, 2022.

Findings

General

1. A complete application was received July 7, 2021.
2. The City of Corcoran and City of Medina are reconstructing approximately 1.3 miles of Hackamore Drive and are proposing 4.4 acres of net, new impervious surfaces.
3. The project will reconstruct Hackamore Road from 1,500 feet west of CR 116 to CR 101. The proposed project will reconstruct Hackamore Road to a 2-lane combination rural and urban section with 11-foot lanes and 6-to-8-foot shoulder. An 8- to 10-foot bituminous trail is also proposed between CR 116 and CR 101, to connect the existing trails that terminate at the intersections of CR 116 and CR 101.
4. Turn Lanes are proposed at Medina Lake Road, CR 116, Hunter Road, Zinnia Trail, Steeple Chase Lane/Bergamot Drive, Golden Trail, and CR 101.
5. Construction is proposed to begin in Spring 2023.
6. To meet ECWMC requirements, the net new impervious surface will be treated within five (5) adjacent developments (see Figure 1):
 - a. The Tavera 1st (Lennar) Development (Corcoran) – Currently under construction
 - b. Walcott Glenn (Corcoran) – Development has obtained preliminary approval and grading is slated to begin by the end of year
 - c. The Reserve at Medina – Development is complete.
 - d. Future Development 1 in Corcoran – Expected by 2025
 - e. Future Development 2 in Medina – Expected by 2030
7. Since the July 2021 submittal three of the five developments have been constructed, have received final approvals, or are currently being approved by the City and Commission. These

three developments will provide much of the stormwater management for the Hackamore Drive Improvements, providing approximately 77% of the required abstraction volume.

8. With two future developments still being planned, the interim conditions will produce increase runoff rates, volumes, TSS, and TP. These future developments will provide the remaining abstraction, water quality, and rate control.
9. Geotechnical evaluation and soil borings by Haugo in 2019 indicate mostly sandy lean clay fill, with native glacial material. No groundwater was encountered below the lowest elevation 978. The geotechnical evaluation was geared toward the road bed, borings do not extend to areas with future BMPs.
10. The project has three discharge points: north, east, and south. All discharge points eventually flow to Elm Creek. Figure 2 shows the proposed tributary area to each discharge point.
11. There is no FEMA floodplain or Elm Creek jurisdictional floodplain within the project limits.
12. Natural wetlands were identified within the project limits and have been identified in the submitted wetland delineation and mitigation report.

Rule D – Stormwater Management

Rate Controls

Rate control measures **do not meet** Commission standards for the interim condition.

1. Rate control for the site is directed to three primary discharge points from the Hackamore Road corridor: north, east, and south. In the interim condition, there will be a rate increase to the north discharge point in all storm events as well as a minimal rate increase to the east in the 2-year and 10-year event.
2. The applicant provided proposed HydroCAD model output for the 2-year, 10-year, and 100-year events which are summarized in Table 1.
3. Rates to the North and Overall to Elm Creek for the 2-, 10-, and 100-yr storm events increase between 0.5 to 3.4 cfs during the interim condition. These rates increases will be further mitigated when Future Development 1 and Future Development 2 are constructed.
4. It should also be noted that some of the rate and water quality increases to the north is routed through a stormwater pond (Pond 2) of the Reserve at Medina. Pond 2 had additional capacity and water quality treatment. This pond will provide some rate control and prevent water quality degradation while Future Development comes online outside of our ~5-year timeframe.

Table 1 Rate of Discharge Leaving Site

Discharge Point	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
North	Pre-Project	7.5	16.4	44.1
	Proposed	10.9	21.6	54.5
	Change	3.4	5.2	10.4
East	Pre-Project	9.2	24.3	62.1
	Proposed	10.3	24.5	57.6
	Change	1.1	0.2	-4.5
South	Pre-Project	2.6	5.2	12.4
	Proposed	1.4	3.2	7.1
	Change	-1.2	-2.0	-5.3
Total to Elm Creek	Pre-Project	19.3	45.9	118.6
	Proposed	22.6	49.3	119.1
	Change	3.3	3.4	0.5

Low Floor Elevations

Low floor elevations for structures **meets** Commission standards and have 2-feet of freeboard above the high-water level and are at least one foot above the EOF.

Table 2 Low Floor Analysis

BMP Name	EOF (feet)	100-year Flood Elevation	Low Floor of Hydraulically Connected Structure (feet)
Foxberry Pond	986.0	985.8	994.0
Ravina Pond	985.0	984.7	987.1

Abstraction Controls

Abstraction controls **do not meet** Commission requirements.

1. The total new impervious area will be 4.4 acres.
2. Abstraction of the first 1.1-inches of rainfall from the new impervious areas requires a total of 17,729 cubic feet of filtration.
3. Abstraction for a total 13,621 cf is currently provided within three adjacent developments:
 - a. Reserve at Medina – 3,000 cf

- b. Walcott Glen – 3,274 cf
 - c. Tavera – 3,274 cf
4. The project is 4,108 cf of abstraction in the interim condition. The additional abstraction volume will be provided within Future Developments 1 & 2.

Water Quality

Water quality controls **do not meet** the Commission's standards.

1. The applicant intends to provide abstraction control and water quality treatment to meet Commission standards within the Future Developments 1 & 2.
2. The applicant used MIDS modeling to show the deficit of abstraction and water quality compliance for the project. The results from the interim MIDS modeling are listed in Table 3 below.

Table 2 Abstraction Control and Water Quality Criteria Summary

	Abstraction Vol. (cubic-feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	0.0	22.4	4,075.7
Proposed (w/o BMP's)	17,729 (required)	N/A	N/A
Proposed (w/ BMP's)	13,621	23.4	4,255.2
Change	4,108 (needed)	1.0 (increase)	179.5 (increase)

Operation and Maintenance

The applicant has stated that Cities of Corcoran and Medina will be responsible for the long-term operation and maintenance of all stormwater management practices used within the adjacent developments.

Rule E – Erosion and Sediment Control

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Stabilized construction entrance
 - b. Silt fence
 - c. Biorolls
 - d. Double (redundant) silt fence adjacent to delineated wetland boundaries
 - e. Catch basin inlet protection
 - f. Stabilization of disturbed soil areas.

Rule G – Wetland Alteration

Wetland alterations **do not meet** the Commission's requirements

1. There is a total of nine (9) wetlands that will be either Temporarily or Permanently impacted by the project.
2. Temporary impacts will occur as part of the project to facilitate construction and have been identified as all areas within the temporary easement boundaries for the project.
3. These Temporary impacts total 0.48 acres and will qualify for a No Loss per Mn Rule 8420.0415 Subpart H.
4. There is 0.24 acres of Permanent Impacts that are considered No Loss.
5. There is an additional 0.95 acres of permanent impact that will be replaced via Wetland Banks (0.23 acres) or through the Local Government Road Wetland Replacement Program (LGRWRP) (0.72 acres).
6. The applicant has provided a Wetland Alterations plan, but it **has not** been approved by the LGUs, which are the City of Corcoran and the City of Medina.

Rule H – Bridge and Culvert Crossings

Bridge and culvert crossing alterations **meet** the Commission's requirements.

1. The outlet from the MnDNR Public wetland in the southeast corner of Hackamore Road and CR 116 (Wetland 2, in Figure 2) was evaluated for a change in water level and a change in outflow.
2. The outlet culvert will be replaced with inverts to match the existing culvert, maintaining the normal water level and runout elevation for the wetland.
3. Due to an increase culver length, there are some minor changes in flows resulting in a decrease in the proposed flow rates for the 2-, 10-, and 100-year storm event, The flow decreases are within 0.33 cfs of the original flows and result in an increase of 0.01 feet during the 100-yr storm event. The HWLs are maintained during the 2- and 10-year storm event. These 0.01-foot increase is acceptable for this basin.

Rule I – Buffer Strips

Plans **do not meet** Commission requirements for buffer strips.

1. The buffer strip requirements and required monumentation will be provided with the approved Wetland Alteration Plan.

Recommendation

Conditional Approval for the interim conditions.

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Approval is contingent upon an approved Wetland Alteration plan showing that the increases in rates and volumes will not impact the receiving wetlands beyond increased TSS/TP loads that will be mitigated in the future.
3. Approval is contingent upon a buffer strip plan with proper wetland buffer monumentation.
4. Approval is contingent upon Future Development 1 BMPs providing:

- a. Rate control to offset rate increases for the 2-, 10-, and 100-yr interim rate increase.
- b. Volume control to offset the remaining 4,180 cf, not provided by the interim conditions.
- c. Water quality to offset the interim increases of 1.0 lb/yr of TP and 179.5 lbs/yr of TSS.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



11/2/2022
Date

Attachments

- | | |
|-------------|--------------------------------|
| Figure 1 | Categorized Drainage Map |
| Figure 2 | Discharge Point Tributary Maps |
| Figure 3 | Existing Drainage Map |
| Figure 4 | Proposed Drainage Map |
| Figure 5-13 | Wetland Impact Figures |

Figure 1 Categorized Drainage Map

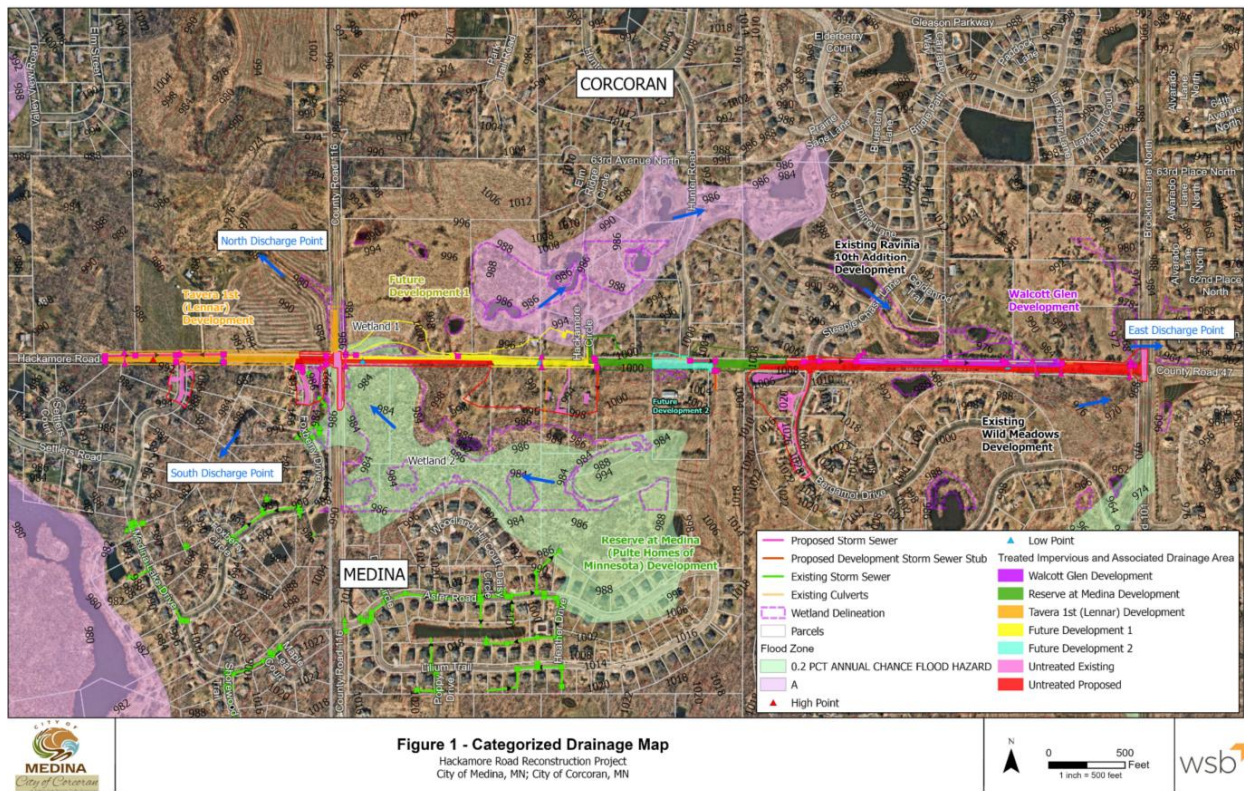


Figure 2 Discharge Point Tributary Area Map

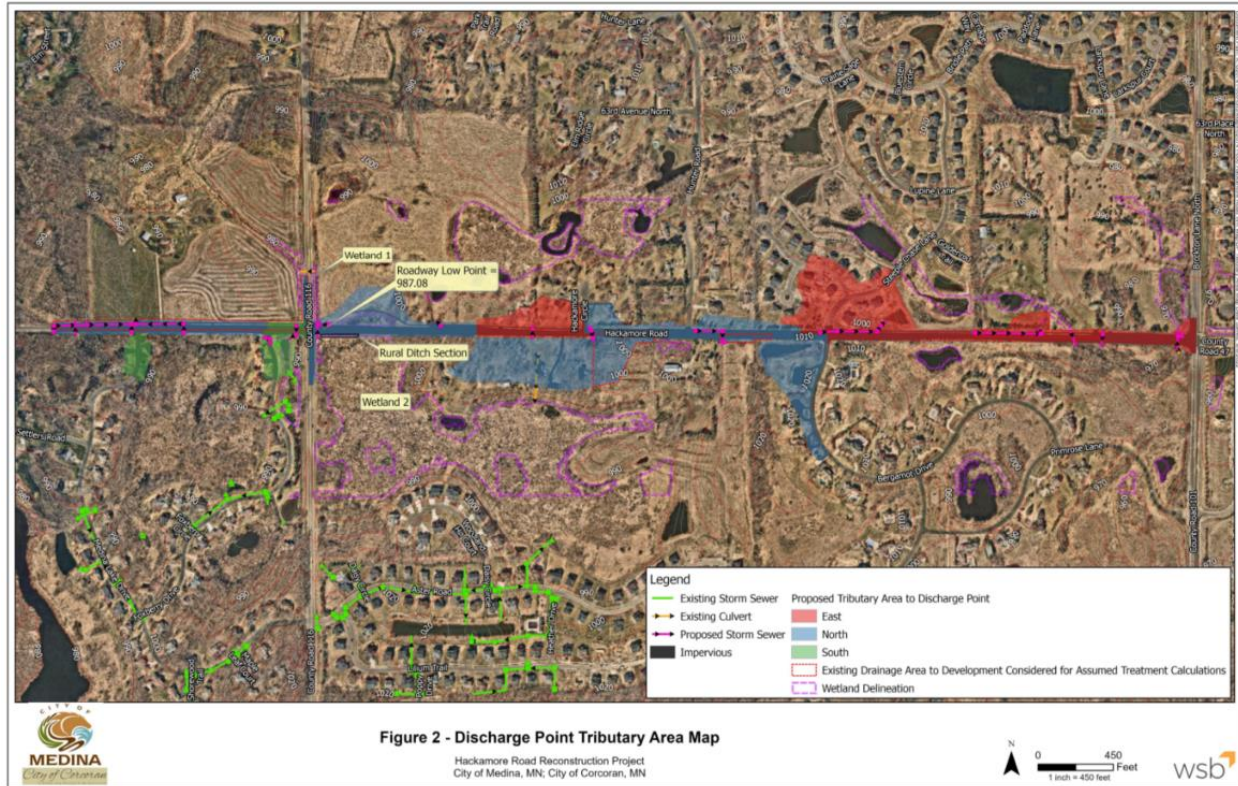


Figure 3 Existing Drainage Map

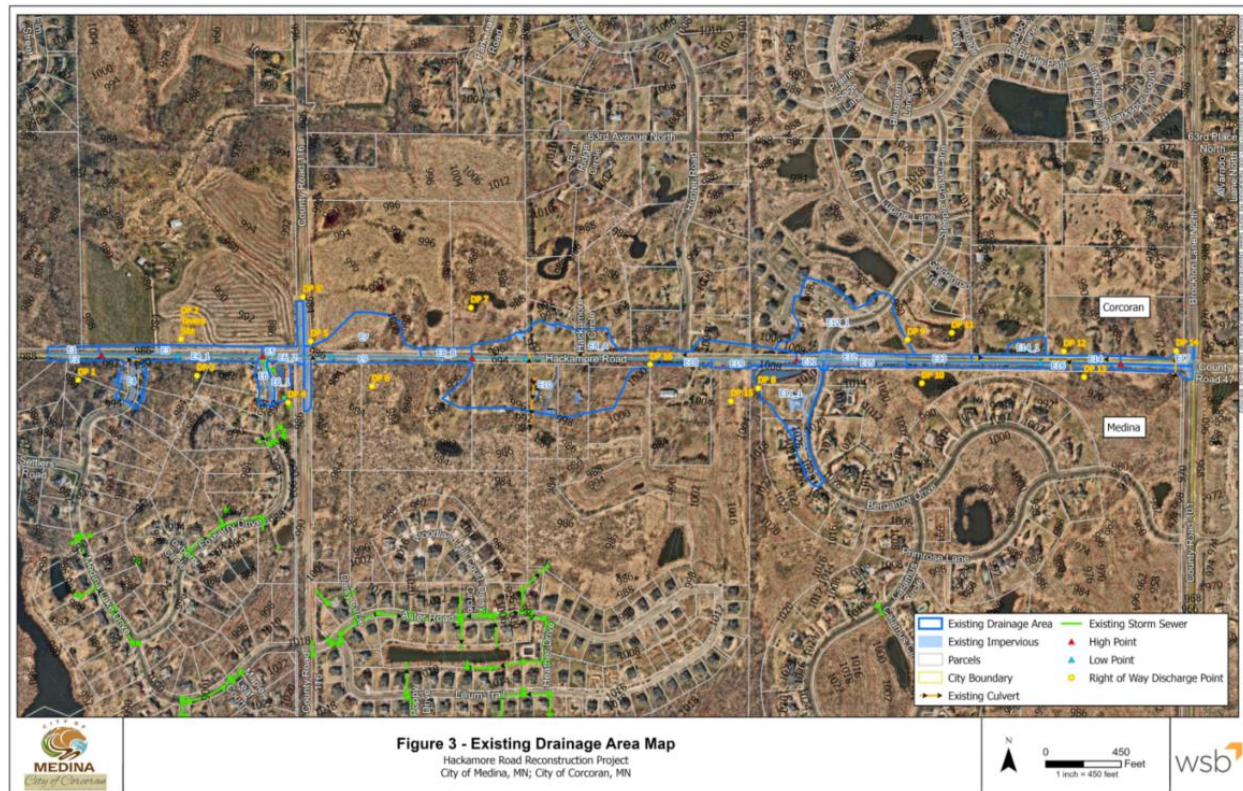
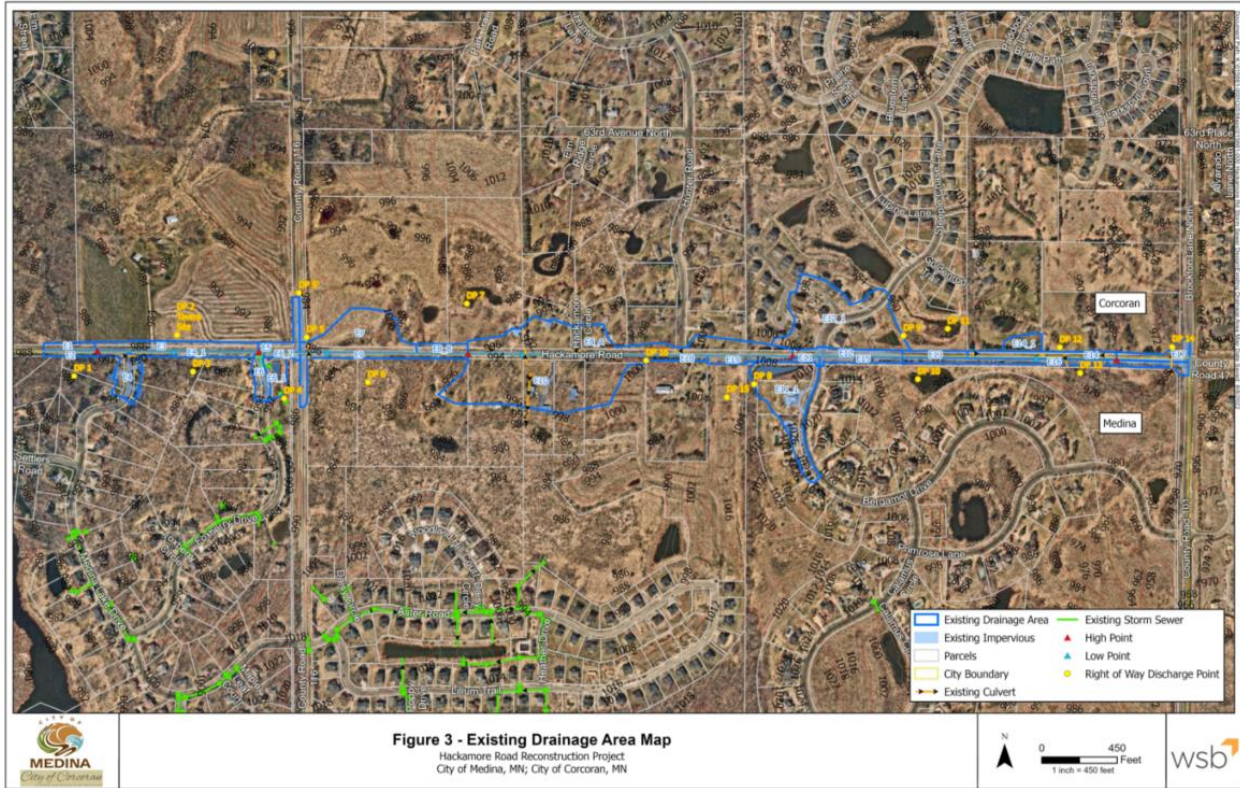
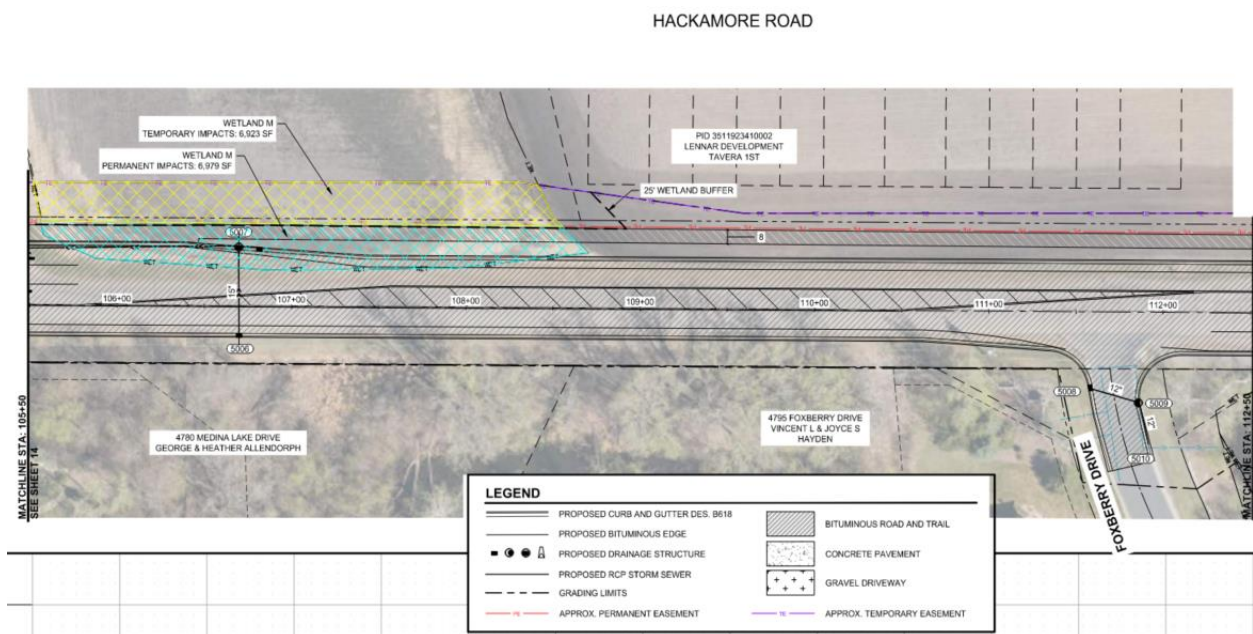
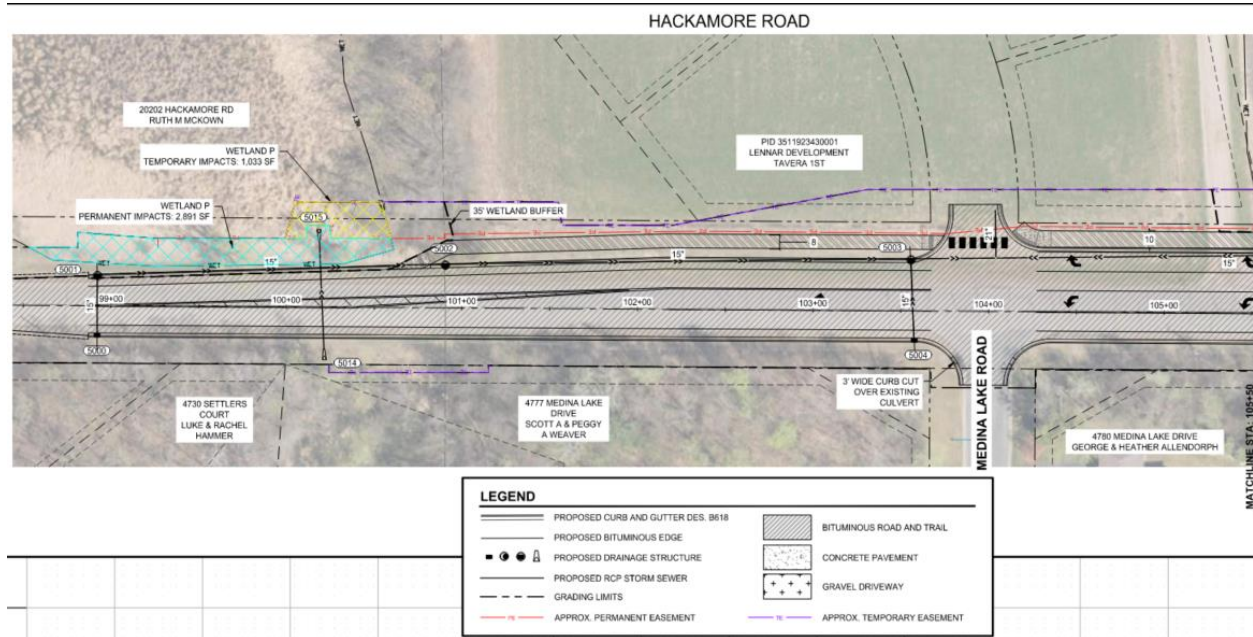


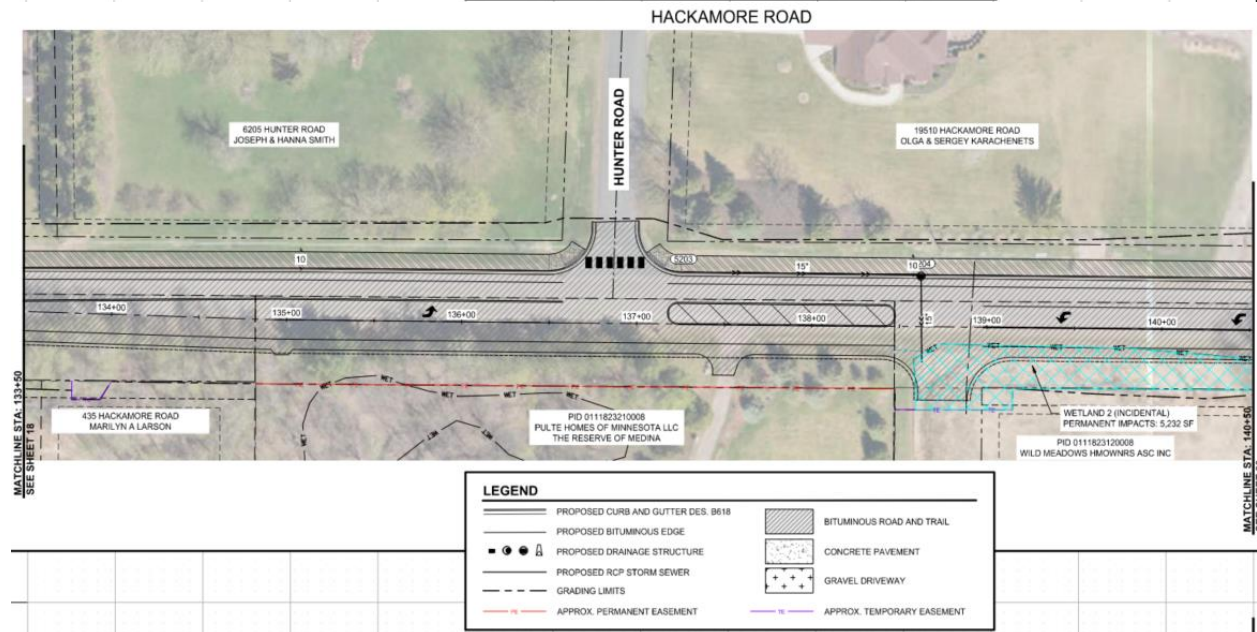
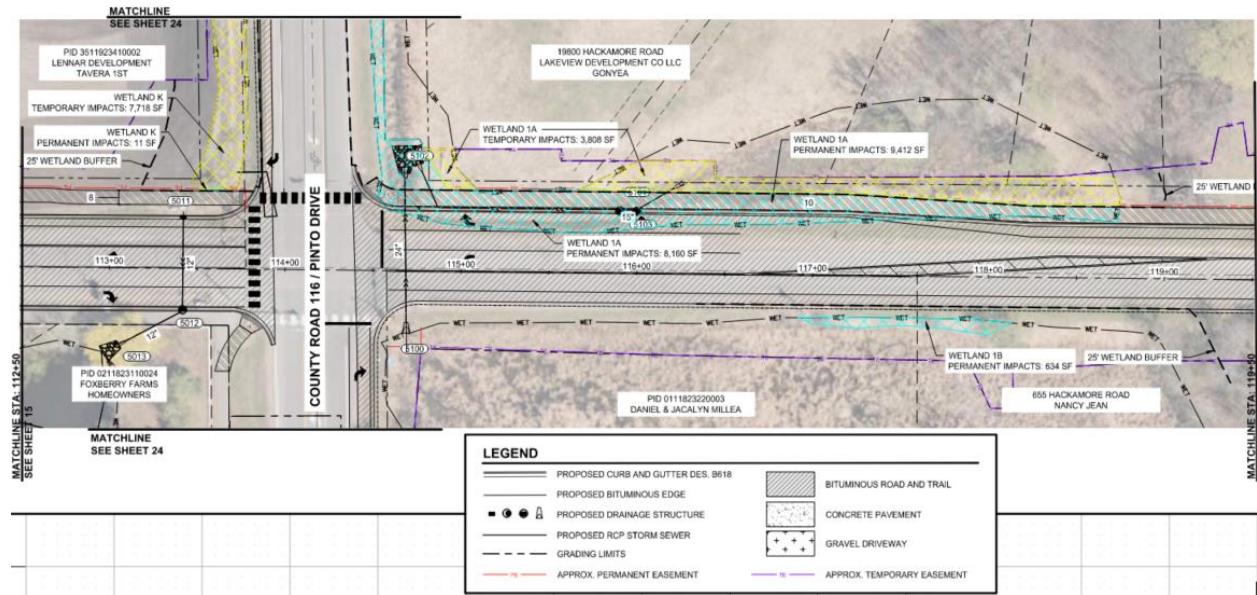
Figure 4 Proposed Drainage Plan

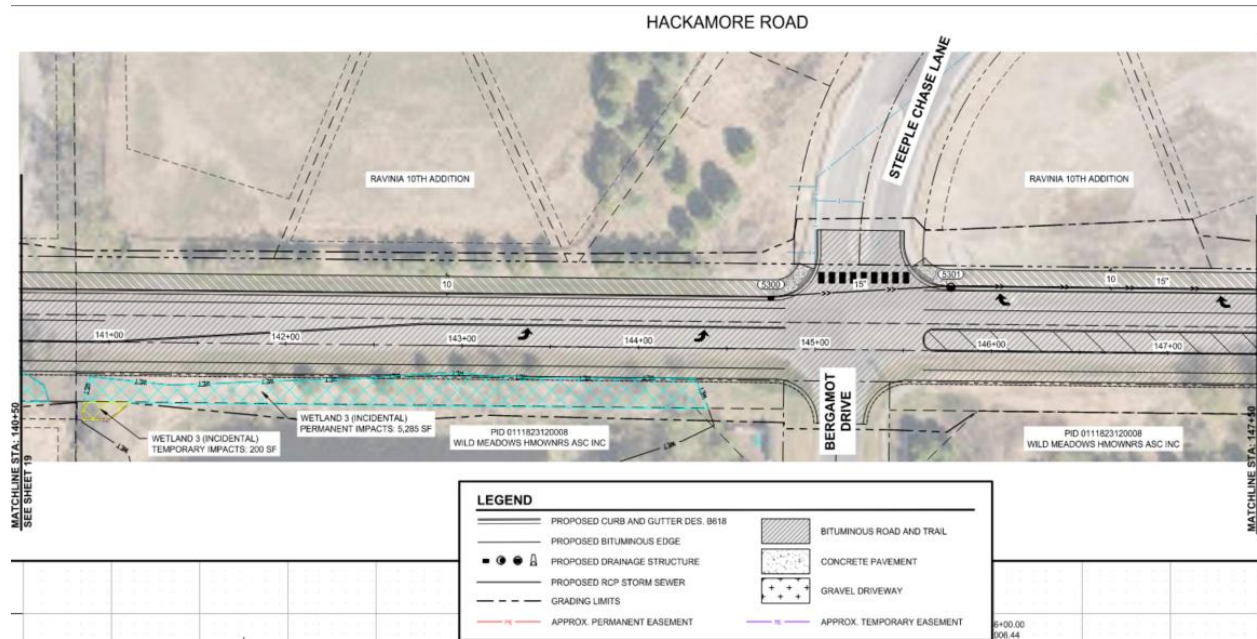
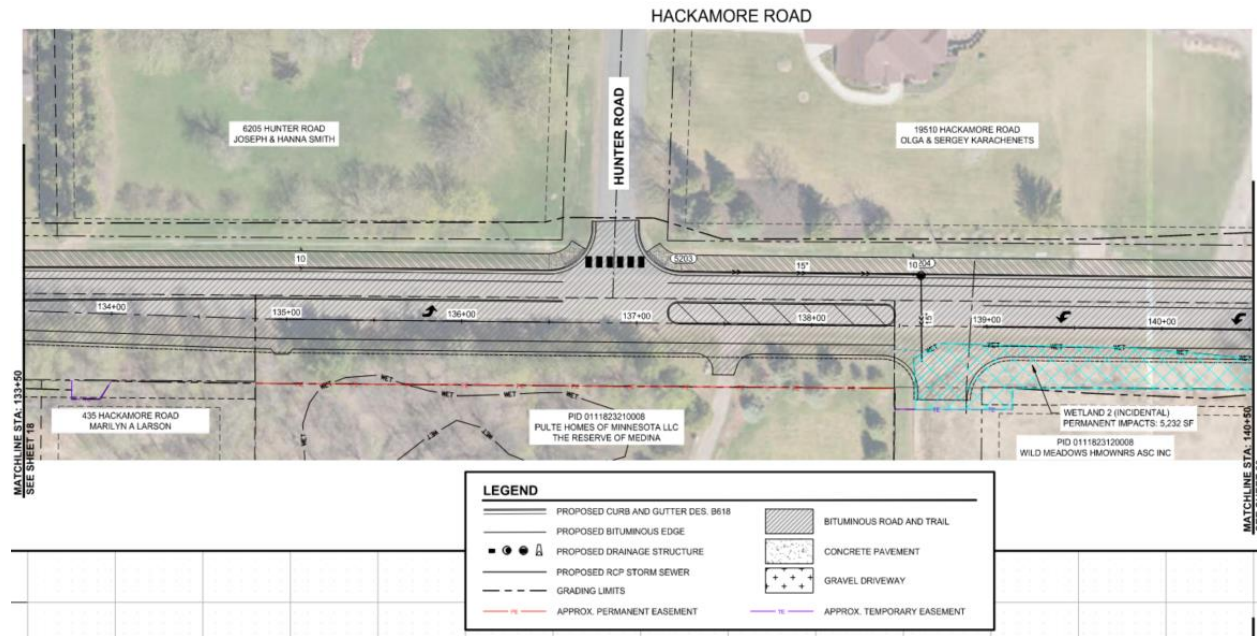


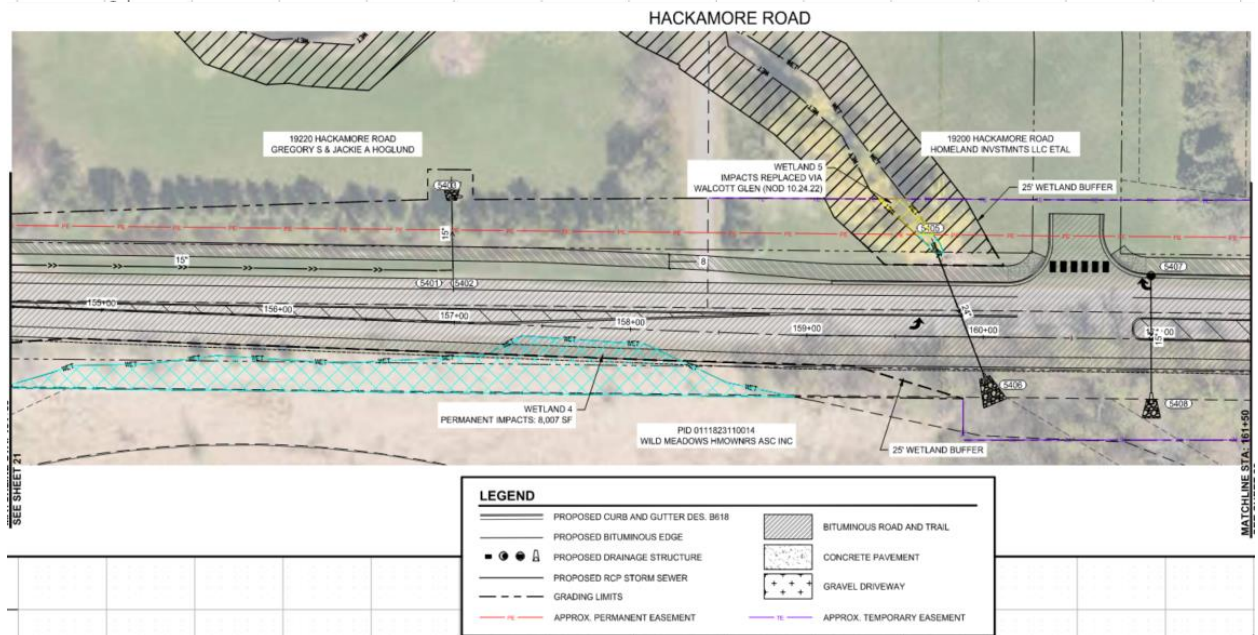
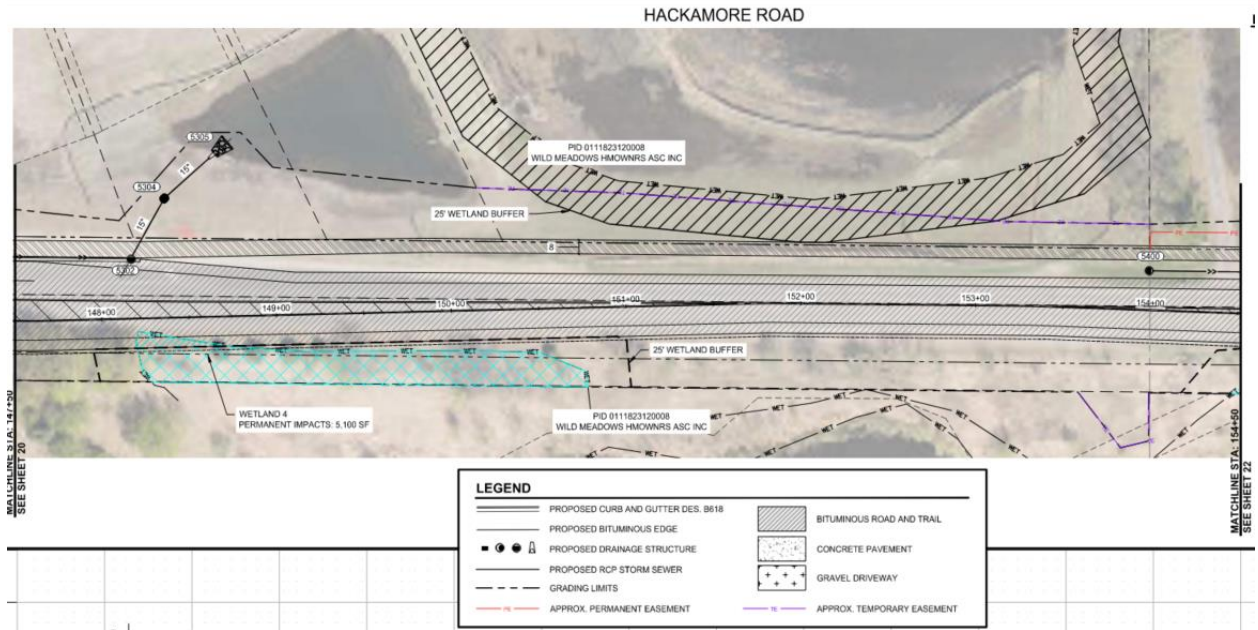
Figures 5-13 Wetland Impact Figures

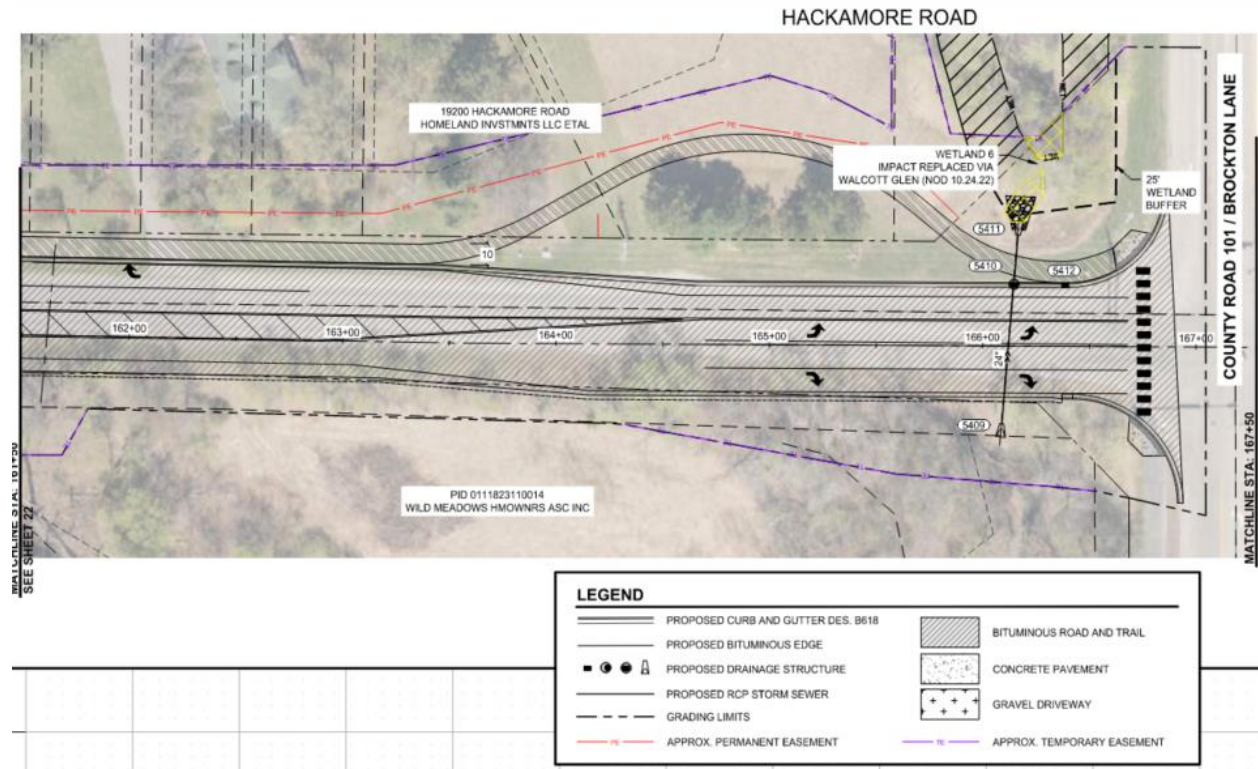


HACKAMORE ROAD









elm creek Watershed Management Commission

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Rush Hollow Maple Grove Project #2022-035

Project Overview:

Location: The project consists of a 153.6-acre site (161.5-acre site, excluding 7.9 acres of County Road 81 ROW). The site is bound by the Sundance Greens developments to the north, County Road 81 to the south, the Enclave at Rush Creek development and Rush Creek Cemetery to the west, and Territorial Road with undeveloped land to the east.

Purpose: Pulte Homes is proposing 239 single family homes, 217 townhomes, and two senior house buildings with 80 total units including roads, sidewalks, and utilities.

WMC Rules	X	Rule D	Stormwater Management
Triggered:	X	Rule E	Erosion and Sediment Control
		Rule F	Floodplain Alterations
		Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips
		Rule K	Variance

Applicant: Pulte Homes
Address: 7500 Flying Cloud Drive, Ste 670
Eden Prairie, MN 55344

Attention: Dean Lotter
Phone: (952) 219-9082
Email: Deab.Lotter@PulteGroup.com

Agent: Alliant Engineering Inc
Address: 733 Marquette Ave. S, Ste 700
Minneapolis, MN 55402

Attention: Ben Palazzolo
Phone: (651) 788-9616
Email: bpalazzolo@alliant-inc.com

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	June 30, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	June 30, 2022
	<input checked="" type="checkbox"/> City authorization: Maple Grove, MN	June 14, 2022
	<input checked="" type="checkbox"/> Review fee: \$4,050	June 30, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	June 30, 2022

Submittals

1. Stormwater Management Plan, dated June 28, 2022, prepared by Alliant Engineering, Inc. revised July 14, 2022, September 2, 2022, and October 28, 2022.
 - a. Stormwater Narrative.
 - b. Existing and Proposed Drainage Maps.
 - c. Existing and Proposed HydroCAD models.
 - d. Geotechnical Evaluation Report, dated February 11, 2021, prepared by Braun Intertec Corporation.
2. Construction Drawings, dated June 28, 2022, prepared by Alliant Engineering, Inc. revised July 14, 2022, September 2, 2022, and October 28, 2022.

Findings

General

1. A complete application was received June 30, 2022. The initial 60-day decision period per MN Statute 15.99 expires June 14, 2022. An extension for the application was requested November 11, 2022. This extended the review period to November 27, 2022
2. The existing 153.6-acre site consists primarily of wooded slopes, wetlands, and grass trails to the north of Rush Creek, and wooded slopes, wetlands, and farmland to the south. The site currently drains to two general areas:
 - a. Rush Creek from the north and the south.
 - b. To the southeast at the intersection of Country Road 81 and Fernbook Lane N.
3. The proposed site consists of two parcels. The construction includes 239 single family homes, 217 townhomes, and two senior house buildings with 80 total units.
4. The total proposed connected impervious surface from proposed roadways, driveways, buildings, and sidewalks is 51.73 acres, all of which is net, new impervious.
5. The project will include the construction of four new detention ponds with filtration shelves, one filtration basin with a forebay, and two ponds.
6. Due to the presence of type C and D soils, Volume control cannot be achieved via infiltration.
7. There are no Elm Creek Watershed jurisdictional floodplains or stream crossings that will be disturbed by the project.

Rule D – Stormwater Management

General

1. The total proposed connected impervious surface from proposed roadways, driveways, buildings, and sidewalks is 51.73 acres, all of which is net, new impervious.
2. Based on the geotechnical report, the hydrologic soil group was determined to be between "C" and "D". These underlying soils have low and very low infiltration capacity.
3. The project will include the construction of four new detention ponds with filtration shelves, one filtration basin with a forebay, and two ponds.
4. Stormwater runoff from the new roadways, all the front yards, and a few back yards will be collected by storm sewer and piped to the proposed stormwater treatment BMPs. Several rear yards will drain overland to Rush Creek floodplain. The site is separated into two segments: Drainage north of Rush Creek and South of Rush Creek.

Rate Controls

1. Rate control **meets** Commission requirements.
2. The proposed basins were sized to draw down within 48 hours.
3. The applicant provided HydroCAD model output for the 2-year, 10-year, and 100-year events total outflow from each drainage from the site. The rates are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
South <i>To Rush Creek North Bank</i>	Pre-Project	31.01	77.91	211.44
	Proposed	18.56	54.50	141.92
	Change	-12.45	-23.41	-69.52
North <i>To Rush Creek South Creek</i>	Pre-Project	51.95	99.57	203.37
	Proposed	13.71	45.63	100.36
	Change	-38.24	-53.94	-103.01
Southeast <i>To CR 81 Trunk Stormsewer</i>	Pre-Project	18.93	25.00	32.98
	Proposed	16.95	24.37	31.74
	Change	-1.98	-0.63	-1.24
Southeast <i>To Fernbrook Lane Trunk Stormsewer</i>	Pre-Project	9.66	16.96	32.40
	Proposed	5.70	11.71	21.31
	Change	-3.96	-5.25	-11.09
TOTAL	Pre-Project	111.55	219.44	480.19
	Proposed	54.92	136.21	295.33
	Change	-56.72	-83.23	-184.86

Low Floor Elevations

1. Low floors **meet** Commission requirements.
2. The low floor elevations must be at least two feet above the 100-yr high water level (HWL) and at least one foot above the EOF for the stormwater pond.
3. Lots 3 and 4 of Block 56, and lots 3 and 17 of Block 52 do not meet these requirements. To show that groundwater will not impact these lots and will not require the freeboard outlined in Rule D, the Low-Floor Elevation Assessment from Riley-Purgatory-Bluff Creek Watershed District is used. Further features separating the lots are adequate contours. This assessment is acceptable to the commission.

Operation and Maintenance

The applicant will need to enter a stormwater maintenance agreement with the City of Maple Grove.

Abstraction Controls and Water Quality

1. Abstraction and Water Quality controls **meet** Commission requirements
2. Infiltration from 1.1 inches of runoff from impervious areas is not feasible due to the presence of Type C and D Soils.
3. The applicant proposes to use filtration to meet the Commission's requirement for abstraction.
4. The total proposed impervious is 51.73 acres (2,253,307 sf). The 1.1" abstraction volume is 206,553 cf.
5. The abstraction volume provided is 206,772 through biofiltration.
6. The applicant provided existing and proposed MIDS calculations for the development showing conformance with the water quality requirements.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	66.7	N/A	90.26	15,098.6
Proposed (w/ BMP's)	161.7	206,553 (required) 206,772 (provided)	89.02	9,731.0
Change	95.0	+ 219 (excess)	-1.24	-5,367.6

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Catch basin inlet protection
 - d. Permanent erosion control devices
 - e. Stabilization of disturbed soil areas

Rule I – Buffer Strips

1. Buffer strips **meet** the Commission's requirements as follows:
 - a. The wetland buffer vegetation will meet the Commission requirements for native vegetation establishment and maintenance.
 - b. Wetland buffer monumentation does meet the Commission's requirements.
 - c. The buffer strip is at least 25-feet wide in all locations with a slope shallower than 6:1 (horizontal: vertical) and meets the Commission's minimum (10 feet) and average (25 feet) standard.

Recommendation

Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Approval is contingent upon an operation and maintenance plan that is approved by the City of Maple Grove.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



Date 11/1/2022

Attachments

- | | |
|----------|------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |

Figure 1 Project Location

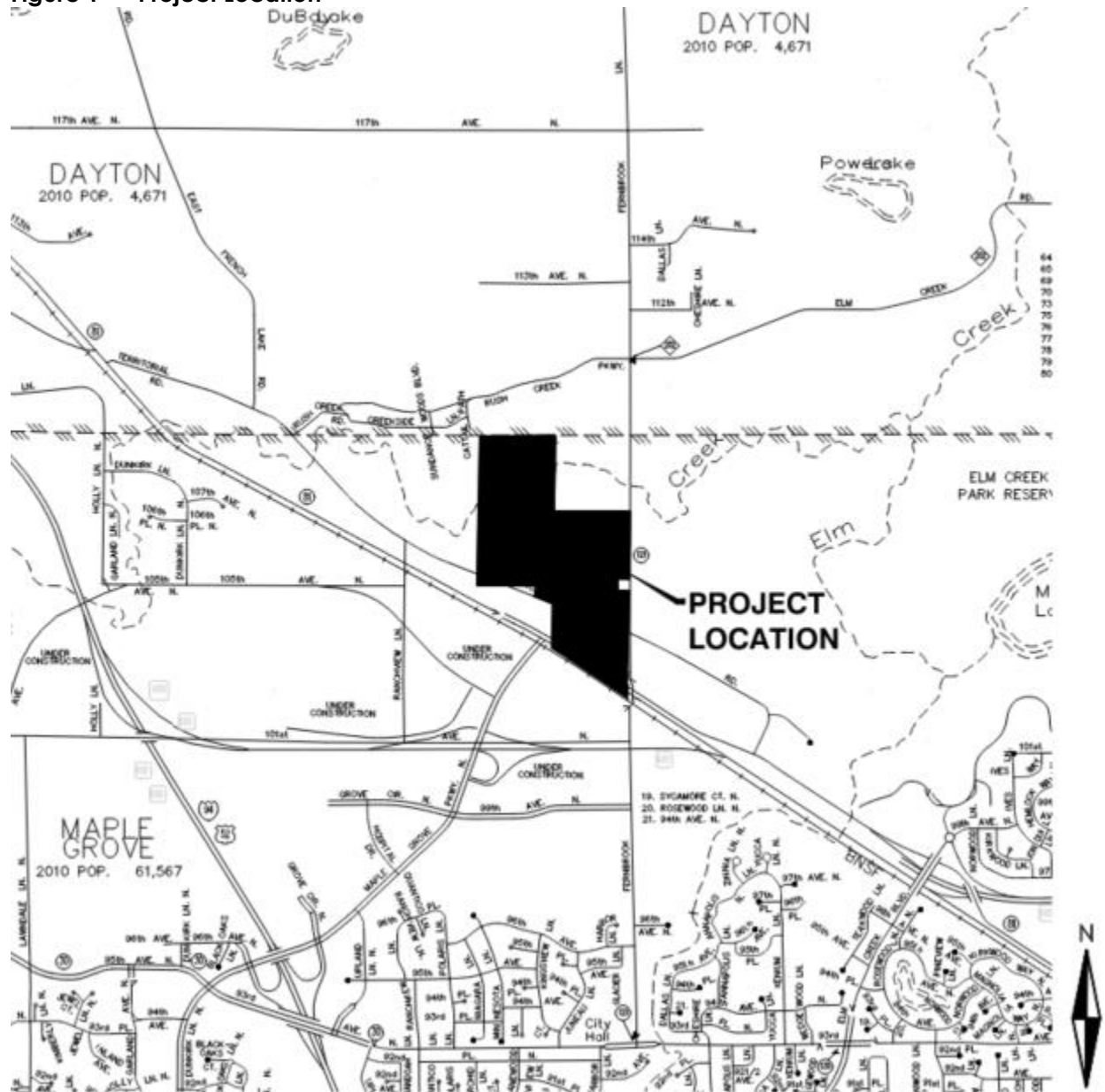


Figure 2 Existing Drainage Map

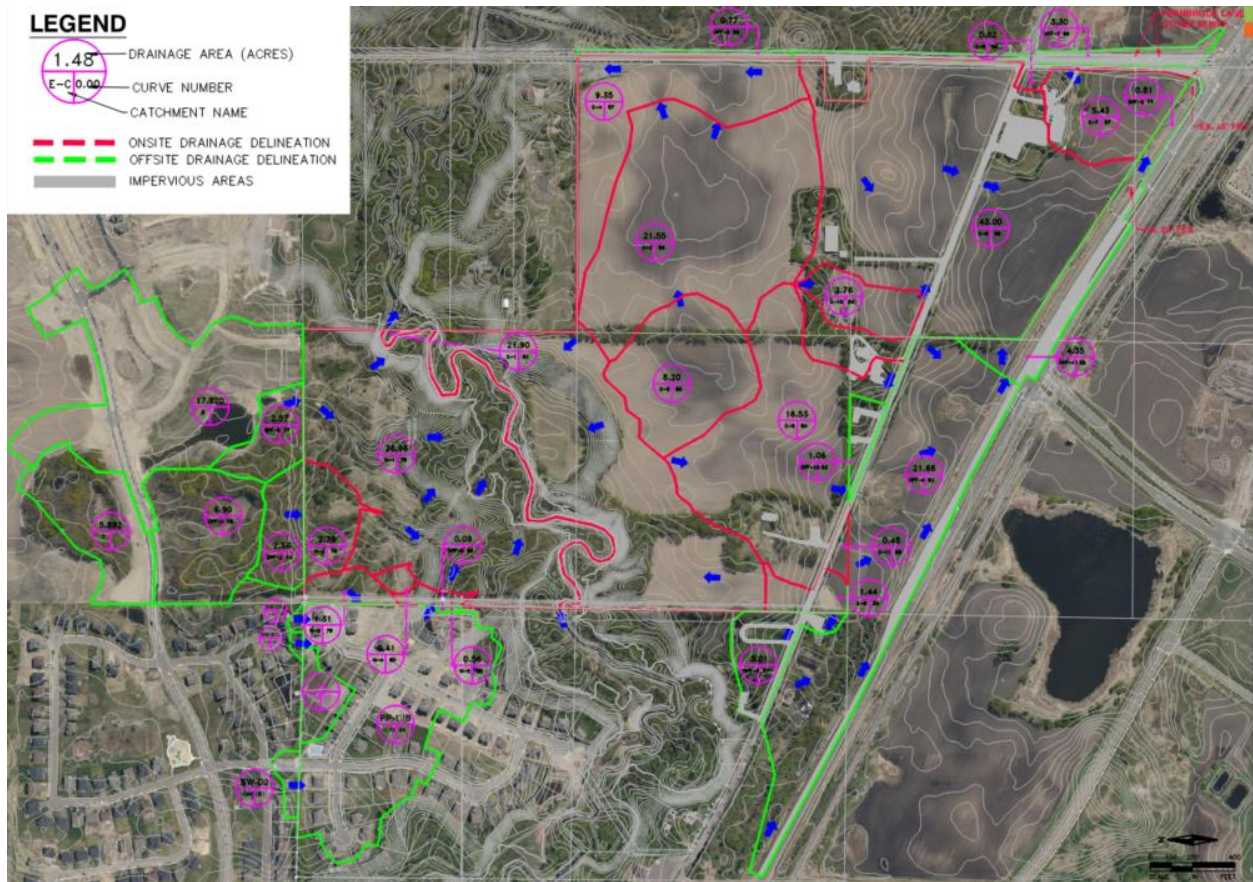
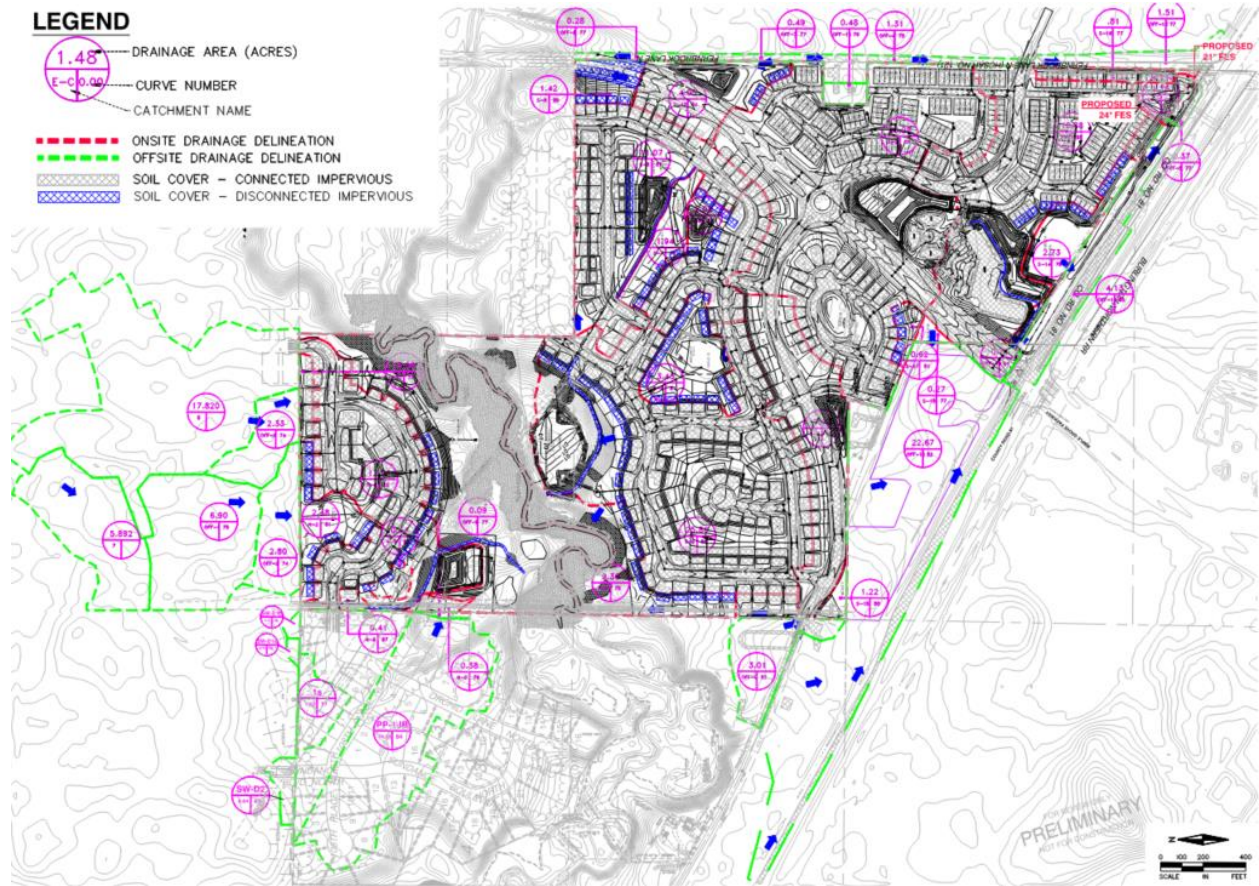


Figure 3 Proposed Drainage Plan



elm creek Watershed Management Commission

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Meander Park and Boardwalk Rogers Project #2022-043

Project Overview:

<i>Location:</i>	The project is located within the City of Medina, northeast of the intersection of Arrowhead Drive and Highway 55.		
<i>Purpose:</i>	The proposed project will develop an existing farmstead property into a mixed-use development comprised of commercial, retail, restaurant, and residential uses.		
<i>WMC Rules</i>	X	Rule D	Stormwater Management
<i>Triggered:</i>	X	Rule E	Erosion and Sediment Control
	X	Rule F	Floodplain Alterations
	X	Rule G	Wetland Alteration
		Rule H	Bridge and Culvert Crossings
	X	Rule I	Buffer Strips
		Rule K	Variance

<u>Applicant:</u>	Medina Ventures, LLC	<u>Attention:</u>	Chris Pederson
<u>Address:</u>	4130 Fescue Drive Medina, MN 55340	<u>Phone:</u>	(608) 217-6330
		<u>Email:</u>	madmrchristopher@gmail.com
<u>Agent:</u>	SRF Consulting Group, Inc	<u>Attention:</u>	Paul Schroeder
<u>Address:</u>	3701 Wayzata Boulevard, Suite 100, Minneapolis, MN 55416	<u>Phone:</u>	(763) 249-6796
		<u>Email:</u>	pschroeder@srfconsulting.com

Exhibits:	Description	Date Received
<i>Application</i>	<input checked="" type="checkbox"/> Complete ECWMC Application	September 14, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	September 14, 2022
	<input checked="" type="checkbox"/> City authorization: Medina, MN	September 12, 2022
	<input checked="" type="checkbox"/> Review fee: \$5,400	September 14, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	September 14, 2022

Submittals

1. Stormwater Management Plan, dated September 8, 2022, prepared by SRF Consulting Group, Inc, revised October 28, 2022
 - a. Stormwater Narrative
 - b. Existing and Proposed Drainage Maps
 - c. Existing and Proposed HydroCAD models
 - d. Geotechnical Evaluation Report, dated November 11, 2021

2. Construction Drawings, dated September 9, 2022, prepared by SRF Consulting Group, Inc. Revised October 28, 2022

Findings

General

1. A complete application was received September 14, 2022. The 60-day decision period per MN Statute 15.99 expires November 13, 2022.
2. The project will disturb approximately 8 acres of an 18.42-acre parcel. The parcel consists of an existing farmstead.
3. The site drains west and discharges into a wetland in two locations
 - a. North of Meander Rd
 - b. South of Meander Rd
4. The proposed project will develop an existing farmstead property in the City of Medina (City) into a mixed-use development comprised of commercial, retail, restaurant, and residential uses.
5. The development will create 4.63-acres of impervious area, 4.62-acres of which is net, new impervious.
6. The project includes stormwater BMPs such as underground filtration, biofiltration, underground pipe storage, dry detention basin, rainwater reuse, sump structures, and SAFL baffles.
7. Underlying soils on site are predominantly clay soils that prohibit infiltration.
8. The 100-year flood elevation of the wetland adjacent to the project site is 986.00. In most cases, the proposed work will occur above 100-year flood elevation, but there will be some work within the floodplain.
9. Compensatory storage will be provided for fill within the floodplain. There will be a total of 210 cubic yards of fill within the floodplain, and 230 cubic yards of compensatory storage volume will be provided.

Rule D – Stormwater Management

General

1. The proposed project will disturb approximately 8.0-acres and create 4.62-acres of impervious surface, 4.62 acres of which is net, new impervious area.
2. underlying soils on site are predominantly clay soils that prohibit infiltration.
3. The project includes stormwater BMPs such as underground filtration, biofiltration, underground pipe storage, dry detention basin, rainwater reuse, sump structures, and SAFL baffles.
4. The ultimate discharge location of the site is a wetland west of the site.

Rate Controls

1. Rate control **meets** Commission requirements.
2. The proposed basins were sized to draw down within 48 hours.
3. The applicant provided HydroCAD model output for the 2-year, 10-year, and 100-year events total outflow from each drainage from the site. The rates are summarized in Table 1.

Table 1 Rate of Discharge Leaving Site

Direction	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
North <i>To Wetland</i>	Pre-Project	3.62	7.48	17.17
	Proposed	3.22	5.94	15.22
	Change	-0.4	-1.54	-1.95
South <i>To Wetland</i>	Pre-Project	5.12	12.02	30.14
	Proposed	3.89	8.18	29.98
	Change	-1.23	-3.84	-0.16
TOTAL	Pre-Project	8.74	19.5	47.31
	Proposed	7.11	14.12	45.2
	Change	-1.63	-5.38	-2.11

Low Floor Elevations

1. Low floors **meet** Commission requirements.
2. The low floor elevations must be at least two feet above the 100-yr high water level (HWL) and at least one foot above the EOF for the stormwater pond.

Operation and Maintenance

The applicant will need to enter a stormwater maintenance agreement with the City of Medina.

Abstraction Controls and Water Quality

1. Abstraction and Water Quality controls **meet** Commission requirements
2. Infiltration from 1.1 inches of runoff from impervious areas is not feasible.
3. The applicant proposes to use filtration and reuse credit to meet the Commission's requirement for abstraction.
4. To calculate reuse, the Ramsey-Washington Metro Watershed District Stormwater Reuse Calculator has been prepared.
5. Net, new impervious areas will be 3.9-acres from the site, requiring abstraction of 15,573 cubic feet.
6. The applicant provided existing and proposed MIDS modeling for the development showing conformance with the water quality requirements.

Table 2 Water Quality Summary

	Annual Runoff Vol. (ac-ft)	Abstraction Vol. (cubic feet)	TP (lbs/year)	TSS (lbs/year)
Pre-Project	3.95	N/A	3.22	585.3
Proposed (w/o BMP's)	11.06	N/A	9.03	1,641.2
Proposed (w/ BMP's)	10.14	15,573 (required) 18,936 (provided)*	2.76	121.5
Change	+6.19	+ 7,533 (excess)	-0.47	-463.8

*SRF reported the volume reduction provided as 15,736 cf. This was calculated by utilizing only 50% credit for filtration. Due to ECWMC utilizing 100% of filtration, this makes the total provided abstraction 18,936 cf.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meets** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
 - a. Rock construction entrance
 - b. Silt fence
 - c. Catch basin inlet protection
 - d. Permanent erosion control devices
 - e. Stabilization of disturbed soil areas

Rule F – Floodplain Alteration

1. There will be a total of 210 cubic yards of fill within the floodplain due to grading.
2. The applicant is proposing 230 cubic yards of compensatory storage volume, resulting in a net increase of 20cubic yards of floodplain mitigation.

Rule G – Wetland Alterations

1. Wetland alterations **does not meet** the Commission's requirements.
2. The applicant is proposing a total of 0.13 acres of permanent impacts to the adjacent wetland due to fill and excavation. No replacement or compensatory mitigation plan has been provided.
3. The city of Medina is the Local Government Unit in charge of administering the Wetland Conservation Act (WCA).
4. A wetlands alterations plan has not been approved.

Rule I – Buffer Strips

1. Buffer strips **meets** the Commission's requirements as follows:
 - a. The wetland buffer vegetation will meet the Commission requirements for native vegetation establishment and maintenance.
 - b. The buffer strip is at least 25-feet wide in all locations with a slope shallower than 6:1 (horizontal: vertical) and meets the Commission's minimum (10 feet) and average (25 feet) standard.

- c. The city of Medina has wetland buffer monumentation that meets the Commission's standards.

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Approval is contingent upon an operation and maintenance plan that is approved by the City of Medina.
3. Approval is contingent upon the addition of EOF's to the grading plan for basins East Filtration and the North Retention Basin. The low floor elevations must be at least one foot above the EOF for the stormwater pond. Secondary outlet devices potentially modeled as EOFs are reported as 987.27 for the North Retention Basin and 993.0, the elevation of the roadway, for the East Filtration Basin.
4. Approval is contingent upon approval from The City of Medina on wetland alterations and buffer setbacks and the applicant needs to provide an approve wetland alteration plan.
5. Approval is contingent upon the addition of approved wetland monument signs to the plan set.

On Behalf of Stantec Consulting Services, Inc.
Advisor to the Commission



Date 11/2/2022

Attachments

- | | |
|----------|------------------------|
| Figure 1 | Project Location |
| Figure 2 | Existing Drainage Map |
| Figure 3 | Proposed Drainage Plan |

Figure 1 Project Location

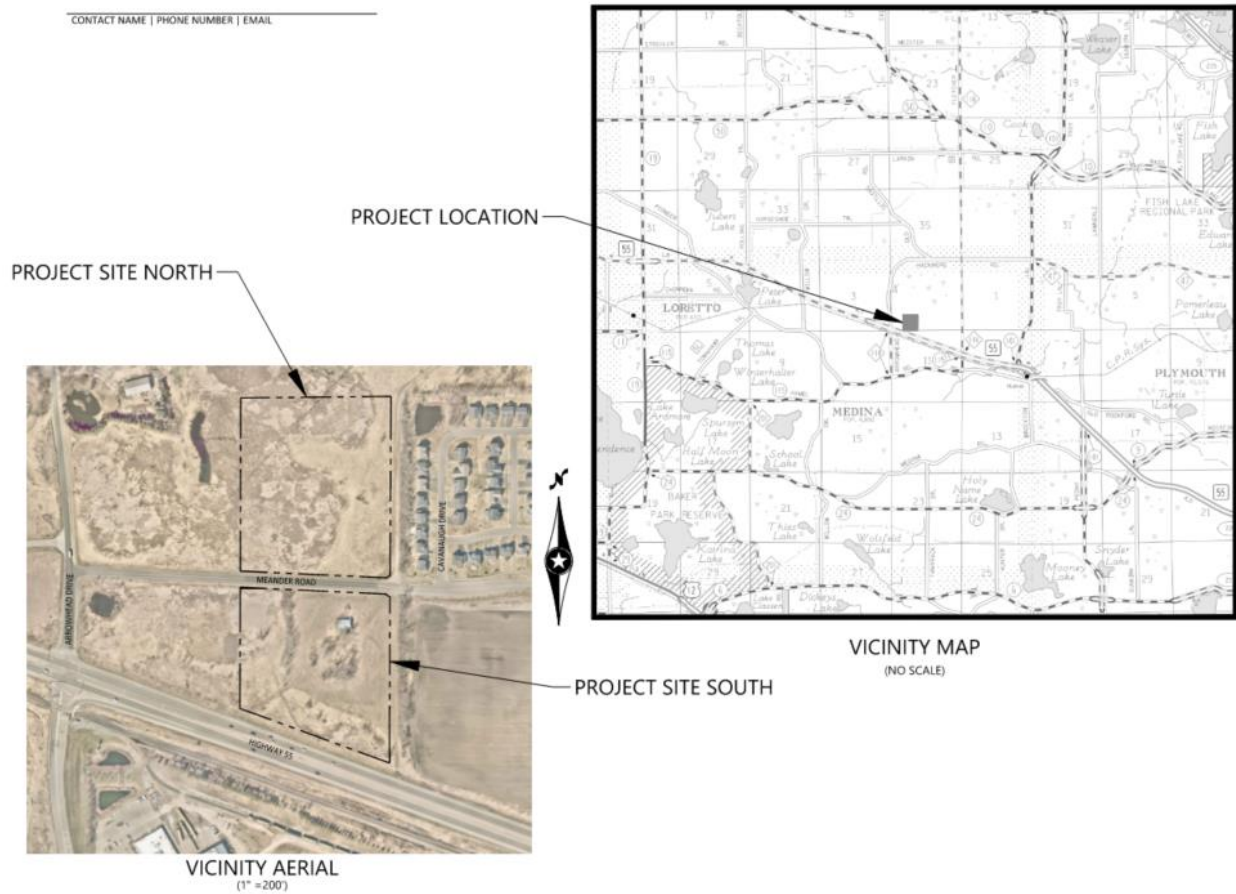


Figure 2 Existing Drainage Map



Figure 3 Proposed Drainage Plan



elm creek Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

CSAH 12 Culvert and Guardrail Replacement and Ravine Stabilization - Dayton Project #2022-046

Project Overview:

Location: The project area runs along the CSAH 12 ROW from 2500' northwest of Lawndale Lane and continues approximately 3.1 miles southwest to near Pioneer Parkway in Dayton.

Purpose: The project will consist of mill and overlay work on an existing section of CR12. Construction plans show the removal of 9-11" of bituminous pavement and 12" of aggregate base and replacing it with the recycled or new materials. Additionally, six sections of this corridor have failing slopes that threaten the road embankment. Culverts will be replaced where needed and six (6) gully areas will be stabilized between the road and the Mississippi River.

WMC Rules	Rule D	Stormwater Management
Triggered:	X Rule E	Erosion and Sediment Control
	X Rule F	Floodplain Alterations
	X Rule G	Wetland Alteration
	Rule H	Bridge and Culvert Crossings
	Rule I	Buffer Strips

<u>Applicant:</u>	Hennepin County Public Works	attention:	Drew McGovern
Address:	1600 Prairie Drive	Phone:	<u>(612) 596-0208</u>
	Medina, MN 55327	Email:	<u>drew.mcgovern@hennepin.us</u>
<u>Agent:</u>	SRF Consulting Group	Attention:	Leah Gifford
Address:	3701 Wayzata Blvd., Suite 100	Phone:	(763) 452-4767
	Minneapolis, MN 55317	Email:	<u>lgifford@srfconsulting.com</u>

Exhibits:	Description	Date Received
Application	<input checked="" type="checkbox"/> Complete ECWMC Application	October 17, 2022
	<input checked="" type="checkbox"/> ECWMC Request for Review and Approval	October 17, 2022
	<input checked="" type="checkbox"/> City authorization: Dayton MN	October 17, 2022
	<input checked="" type="checkbox"/> Review fee: \$2.025	October 17, 2022
	<input checked="" type="checkbox"/> Project Documents (site plans, reports, models, etc.)	September 28, 2022

Submittals

1. ECWMC Application dated September 28, 2022, received October 17, 2022?
2. Permit Summary Narrative by SRF dated October 25, 2022.
 - a. Corrected summary email (October 27, 2022) information regarding site 5 (was called site 4 in original narrative) and pre vs. post 100-year HWL's on sites 3, 5,6,7,8, and 10)
3. Geotechnical Engineering Report for Dayton River Road by Gale-Tec Engineering dated January 21, 2021.
4. National Flood Hazard Layer FIRMette for project corridor exported from NFHL web services by FEMA, on January 26, 2021.
5. Flood Insurance Study, Hennepin County, MN as revised on November 4, 2016, Table 9 Mississippi River Floodway Data through this corridor.
6. CSAH 12 Culvert Replacement and Ravine Stabilization Plan set 115 sheets of 115 sheets, by SRF Consulting Group dated September 16, 2022.
7. MnDOT State Aid for Local Transportation Risk Assessment for Encroachment Design 4 sheet of 4 By SRF dated August 3, 2022.

Findings

General

1. A complete application was received October 17, 2022. The initial 60-day decision period per MN Statute 15.99 expires December 16, 2022.
2. The disturbed area will be approximately 7.5 acres throughout the project ROW and stabilization areas.
3. The project corridor is 3.1 miles long and will consist of generally mill and overlay work. Removing approximately 9-11" of bituminous pavement and 12" of aggregate base and replacing it with the recycled or new materials. Additionally, culverts will be replaced where needed and six (6) gullies will be stabilized between the road and the Mississippi River.
4. The project will impact a total of 0.05 acre of wetlands and wet ditches.
5. The site will create 0.2 acres of new impervious areas throughout the corridor. Because of the linear nature of the project and the minimal increase in imperviousness, the project will not meet the threshold for Rule D (Stormwater Management)
6. The Mississippi River is approximately 380 to 490 feet north of CSAH 12. Areas of Zone AE flood fringe will be impacted by the grading for gully stabilization on Sites 6, 7, 8, and 10. The project triggers the ECWMC's Floodplain Alteration Rule.

Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. Extensive grading will occur on 6 sites throughout the project corridor. This work is being conducted to resolve and protect critical road, ROW stabilization issues, and prevent future erosion and stabilization issues.
 - a. Note: Figures 3, 4, 5 and 6 are typical construction details for all gully control sites
3. Hennepin County Transportation Department completed an Alternatives Analysis along this project corridor in February 2021. The analysis considered the existing and future environmental issues, future trail layouts and other common goals shared by Three Rivers Park District, Dayton, and Hennepin County. Three main slope stabilization and construction alternatives were brought forward for resolving the erosion and sediment issues along this stretch of the project.
 - a. Excavation and slope reconstruction with geogrid reinforcement and gabion baskets or geocells.

- b. Excavation and slope reconstruction with geogrid reinforcement 27 feet in length by 3 foot lifts,
 - c. Excavation and installation of percussion driven anchors combined with turf reinforcement mats.
 - d. A combination of these techniques.
4. Based on the risk assessments of the three options, Hennepin County decided to extensively regrade the gully/unstable areas from their existing slope of 0.5H:1V (see Figure 2 photos) to 3:1 or 4:1 stable slopes (see Figure 5 for typical before and after cross section).
 - a. Six culverts will be extended to a stable channel section on sites 3, 5, 6, 7, 8 and 10
 - b. Longer slopes above the gullies at sites 3, 6, and 7, will have additional water diversion using trench drains and inlet pipes to intercept surface water to safely route it to the base of the slope.
 - c. Riprap and stilling basins will be utilized to reduce flows to acceptable, non-erosion velocities into the existing drainageways downstream of the culverts.
 - d. Extensive seeding, mulching, erosion control blanket and geocells are proposed throughout the project phasing and final restoration.
 - e. Sedimentation controls will utilize silt fence, filter berms, ditch checks, ingress/egress rock or slash mulch pads, inlet pipe protections and temporary ponding and outlet controls on existing culverts.
5. Pipe outlet velocity analysis.

Existing vs proposed outlet velocities.

Location	Existing Culvert Outlet 10-year Velocity (fps)	Proposed Culvert Outlet 10-year Velocity (fps)
Site 3	9.6	8.2
Site 5	8.8	8.8
Site 6	10.6	8.1
Site 7	8.8	8.0
Site 8	11.6	9.6
Site 10	16.3	15.7*

*Stilling basin design velocity = 3.0 fps for 10-year event.

Rule F – Floodplain Alteration

1. Plans **meet** Commission requirements for floodplain alteration.
2. The Mississippi River is immediately north of CSAH 12 (350-500') and there is mapped floodplain near the project. The Flood Insurance Study (FIS) indicates the floodway will not be affected by the projects, but small areas of Zone AE flood fringe on Sites 6, 7, 8, and 10 are impacted by grading.
3. The project is estimated to add 579.8 cubic yards of fill under the 100-year floodplain elevations and provide compensatory storage totaling 771.2 cubic yards via excavation for a net cut of 191.4 cubic yards under the floodplain.

	Site 6	Site 7	Site 8	Site 10
Cut Volume (CY)		45.5		725.7
Fill Volume (CY)	0.4	13.6	3.4	562.4

4. High Water Level elevations from HydroCAD are summarized below for existing and future conditions. The "future" land use scenarios use a higher CN to account for higher runoff volumes once the land is developed.

4 (Continued) HWL Comparison Table at Replacement Culverts

Location	Existing Culvert Inlet 50-year HWL elevation (ft)**	Future Culvert Inlet 50-year HWL elevation (ft)	Existing Culvert Inlet: 100-year HWL elevation (ft)**	Future Culvert Inlet: 100-year HWL elevation (ft**)
Site 3	868.8	868.6	869.7	869.3
Site 5	874.2	874.4	875.1	875.4
Site 6	913.9	913.4	914.3	914.1
Site 7	901.9	901.8	902.3	902.1
Site 8	863.0*	861.4	863.1*	861.9
Site 10	857.0*	850.6	857.1	852.2

* Overtops the road in the existing conditions in the design storm.

**Existing conditions are the condition after the culvert replacement.

Structure Low Opening Elevations adjacent to culvert replacement.

- Although future development shows increase for the HWL on sites 5 and 8, the current existing and proposed high-water elevations remain the same on the replacement culverts.
 - 100-HWL at CR 12 must be monitored and controlled to ensure future risks on structures are mitigated to acceptable levels.
- All emergency overflow elevations remain the same at the replacement culverts.
- All structure freeboard to the low opening of the structure will be 2.0' or greater.
- Emergency overflows freeboard conditions remain the same as before construction.

Rule G - Wetland Alteration

- If necessary, wetland exemption and/or replacement plans per MN WCA will be required prior to impacts. .
- A Wetland Delineation Report was completed by SRF Consulting Group in June 2022. The delineation issued a notice of approval for the delineation.
- The project will impact a total of 0.05 acre of wetlands and wet ditches.
- Wetland replacement plan determination has not been obtained or approved as of this update.

Recommendation

Conditional Approval

Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Jurisdictional determination for LGU WCA replacement or exemption is necessary. LGU and WCA approval is required prior to any wetland impacts if required by LGU.



James C. Kujawa
Surface Water Solutions
Advisor to the Commission

November 1, 2022

Attachments

- | | |
|----------|---|
| Figure 1 | Project Location with Gully Repair Site |
| Figure 2 | Sites 6 and 7 Gully Photographs |
| Figure 3 | Typical Gully Stabilization Grading. Site 6 |
| Figure 4 | Typical Erosion and Sediment Controls, Site 6 |
| Figure 5 | Typical Cross-Section, Site 6 Drainage Plan |
| Figure 6 | Typical Riprap stilling basin Detail |

Figure 1 Project Location with Gully repair sites

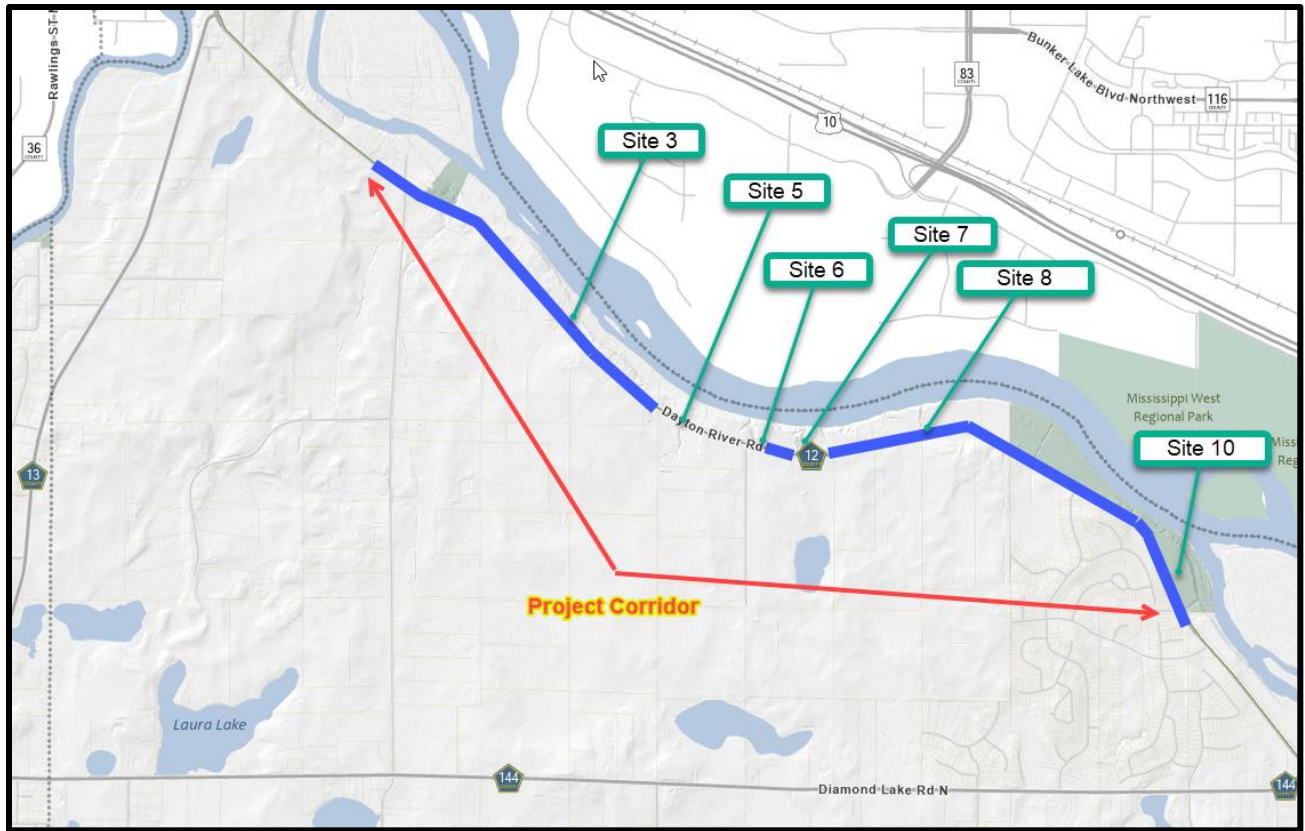


Figure 2 Downstream culvert/gully/erosion pictures -Sites 6 and 7. (~ 350' to Mississippi River)

Site 6

Photo No. 1: Culvert 3 Outlet w/Concrete Headwall



Photo No. 2: Ravine No. 3 Side Slope looking North from Culvert Outlet to the Mississippi River



Figure 2 (Continued) Downstream culvert/gully/erosion pictures -Sites 6 and 7. (~ 350' to Mississippi River)

Site 7

Photo Nos. 3 & 4: Ravine 4 at Culvert Outlet Locations



Figure 3, Typical Gully Stabilization Grading. Site 6

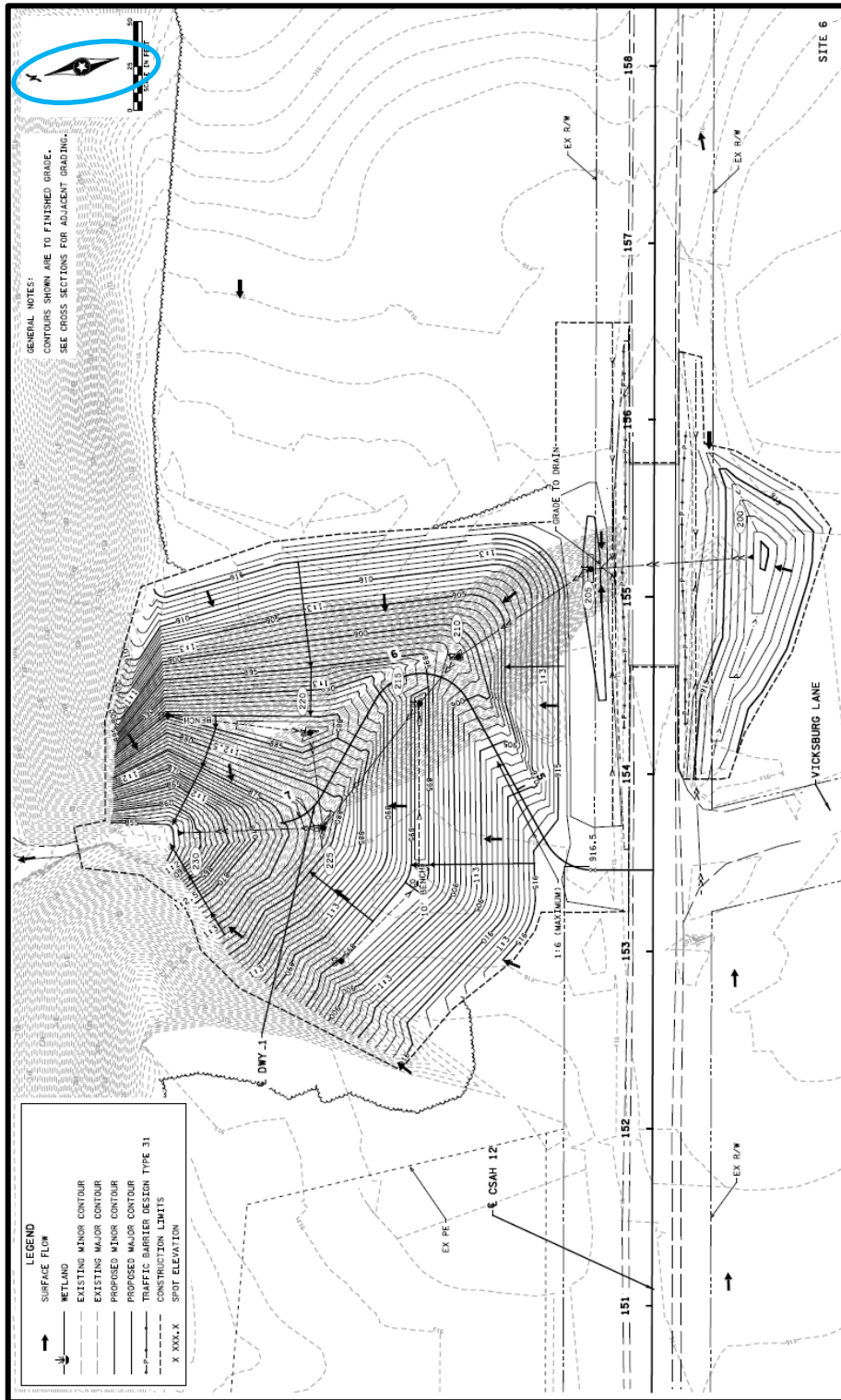


Figure 4 Typical Erosion and Sediment Controls- Site 6

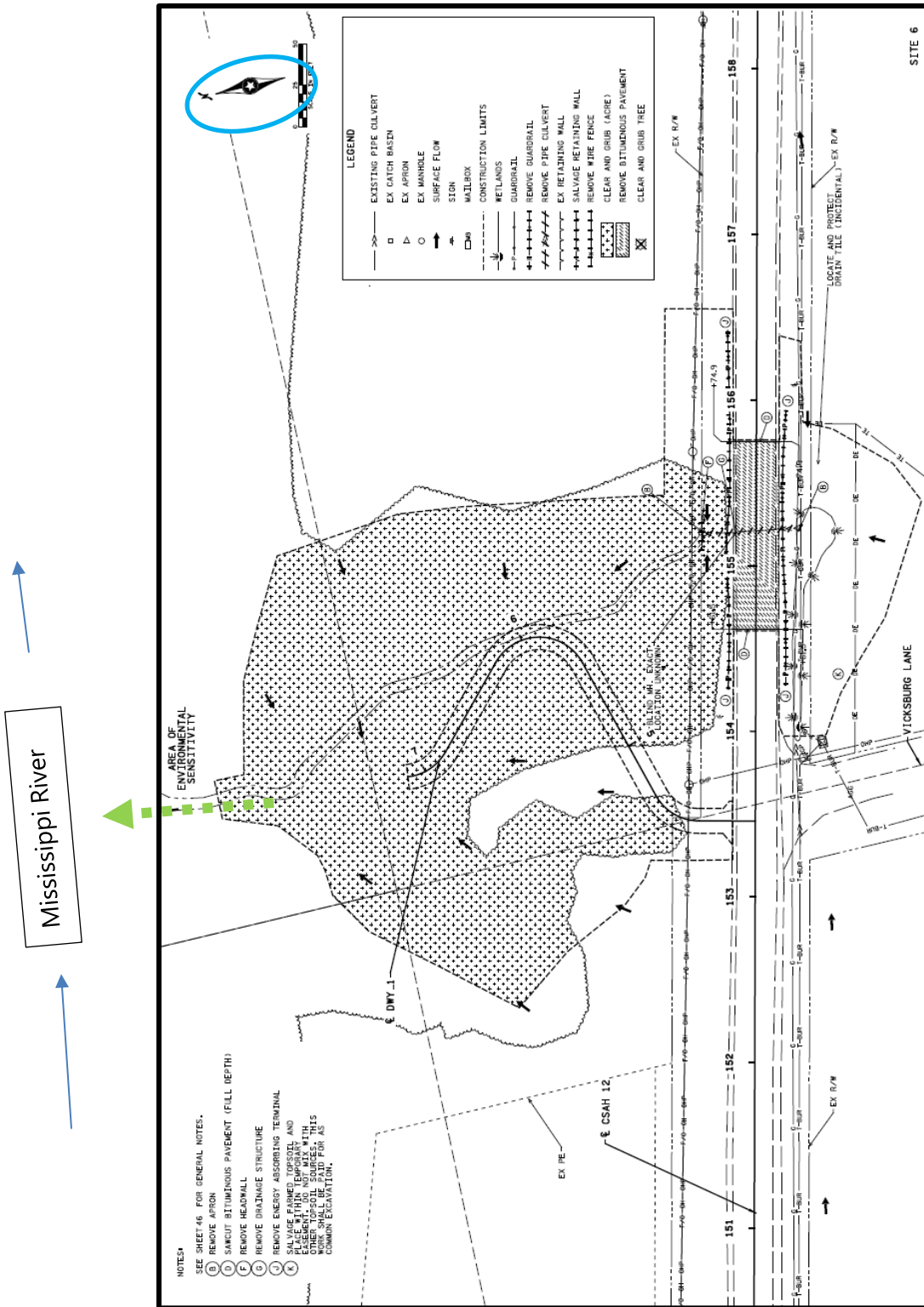


Figure 5 Typical Cross-Section, Site 6

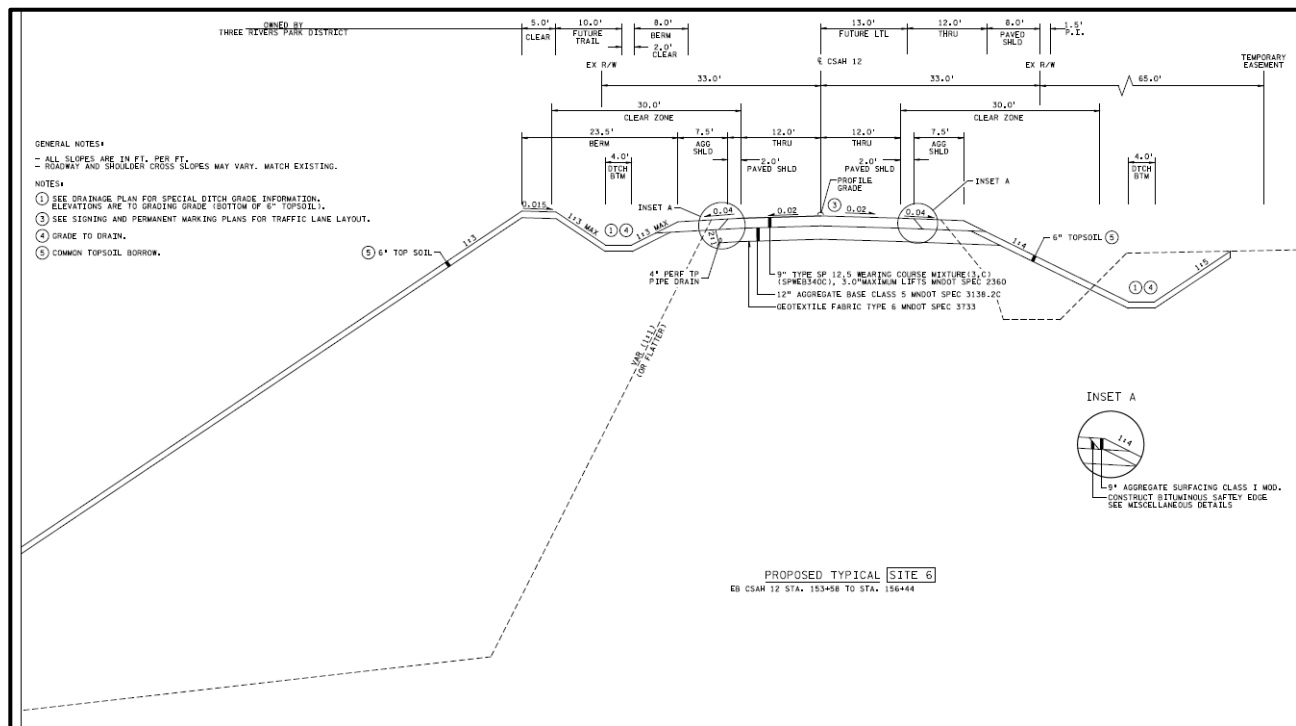
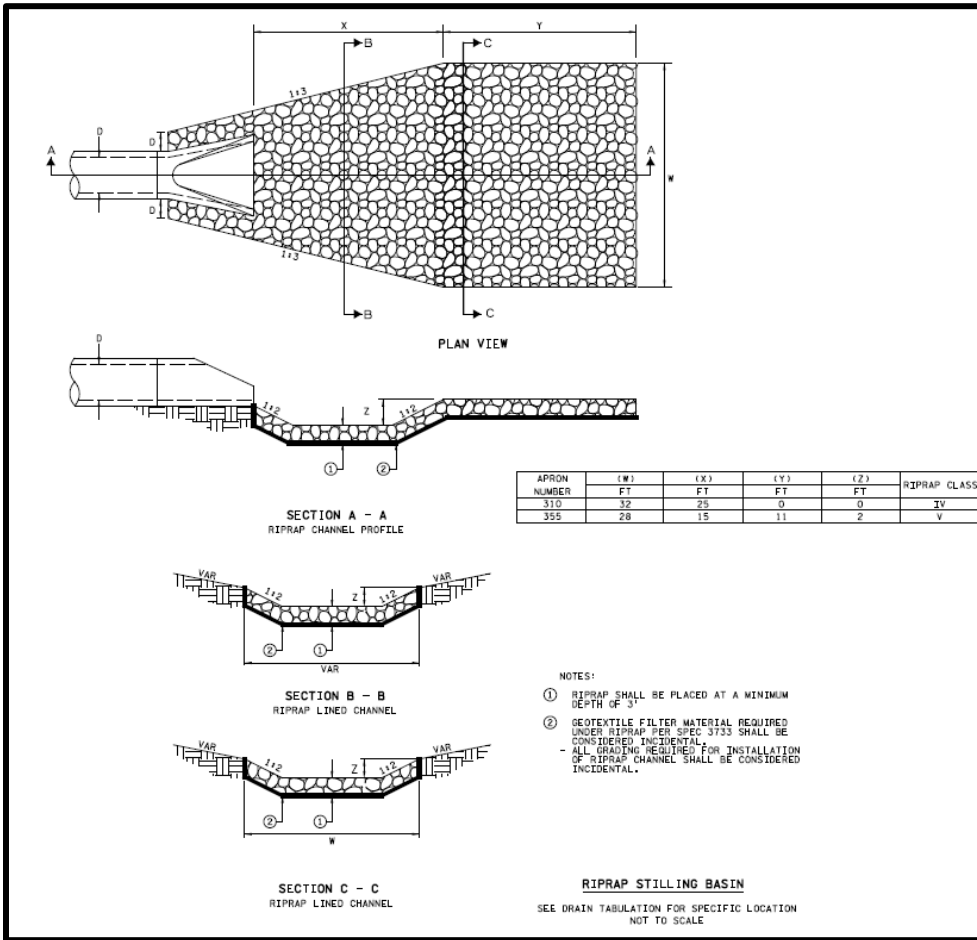


Figure 6 Typical riprap stilling basin



To: Elm Creek TAC

From: Erik Megow, P.E.
Diane Spector
Katie Kemmitt

Date: November 2, 2022

Subject: Chloride Management Requirements for Project Applicants

Recommended TAC Action

For discussion.

The Elm Creek TAC and WMO have a thorough understanding of how road salt (chloride) use for winter safety can negatively impact water bodies. Elm Creek and South Fork Rush Creek are impaired for chloride. Road salt can contaminate drinking water, have negative impacts on aquatic organisms, and corrode infrastructure, among other impacts.

To help minimize sources of chloride in the watershed, the TAC and Commission have been more frequently recommending development projects to the cities pending submittal of a chloride management plan from developers. The purpose of a chloride management plan is to ensure proper winter maintenance BMPs are used for developments in the watershed to minimize the amount of excess chloride applied to pavement and to reduce the amount of chloride that makes its way to water bodies in the watersheds. There are some difficulties with requiring chloride management plans from project applicants. The entity submitting project plans for permitting often doesn't have a strong relationship with the entity who will ultimately be doing winter maintenance, making it difficult to ensure management plans get upheld and implemented. Winter maintenance crews are often contracted out especially for large developments. Requiring chloride management plans, however, may help increase awareness of chloride issues in the watershed and be an additional tool to educate people on the negative impacts of salt use.

Stantec researched chloride management plan requirements from various cities and watersheds in the Metro Area to understand what is currently being done, what is working well, and what options there are for Elm Creek WMO to require a chloride management plan with project applications. Stantec reviewed chloride management requirements from Nine Mile Creek, Coon Creek Watershed, Mississippi Watershed Management Organization, City of Edina, City of Bloomington, and City of Plymouth. Stantec also reviewed the draft Winter Maintenance Management Plan templates created for the Hennepin County Chloride Initiative by Fortin Consulting (attached). Chloride management plans as a requirement for development is a relatively new idea and hasn't been implemented in many places, so there was not much overall feedback from the watersheds and cities on how requiring chloride management plans has been going.

Based on the review described above, Stantec proposes four potential options for the Commissions to implement a chloride management requirement with project submittals ranging from 1 (easier to implement) to 3 (more difficult/resource intensive to implement):

- 1). Do not add a chloride management plan requirement and instead continue efforts on chloride education and outreach in the watersheds.

- 2). Require project applicants to name an individual or multiple individuals responsible for winter chloride management onsite.
- 3). Require project applicants to submit a Chloride Management Plan using the templates provided in Winter Maintenance Management Plan created for the Hennepin County Chloride Initiative by Fortin Consulting. Project applicants will use the calculator to choose which template to use: basic, intermediate, or detailed.
- 4). Add chloride management requirements to the Operations and Maintenance agreements between the site owner and the City.

Stantec recommends Option 1, the Commission refrain from adding any additional requirements to project review submittals and continue to focus on chloride education and outreach in the watersheds.

DRAFT Winter Maintenance Management Plan: Templates & Examples

Created for the Hennepin County Chloride Initiative

By Fortin Consulting Inc.
August 2021

Connie Fortin – Fortin Consulting Inc.
Sarah Kinney – Fortin Consulting Inc.

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Intermediate Plan Criteria	9
Intermediate Plan Example.....	10
Detailed Plan Criteria	12
Detailed Plan Example	14

Credits

Project Manager:

Laura Jester – Keystone Waters

Advisory Team:

Kevin Ponce – Dominion Inc.

Brett Crowe – Davey Corp.

LouAnn Waddick – SOS

Ben Scharenbroch – City of Plymouth

Kevin Neuman – Hopkins Schools

Ryan Foudray – Prescription Landscape

Amy Juntunen - JASS

Laura Gibson - Currents

Brian DeRemer – City of Edina

Jason Dow -Dow's Lawn and Snow

Patrick Amore - PA Lawn and Snow

Others who contributed:

Brooke Asleson – MPCA

Erica Sniegowski – Nine Mile Creek Watershed District

Shahram Missaghi – City of Minneapolis

Lianna Goldstein – City of Minneapolis

FCI Staff involved:

Jessica Jacobson

Connie Fortin

Sarah Kinney

Project Background

On behalf of a group of watershed organizations, cities and other organizations in Hennepin County called the Hennepin County Chloride Initiative (HCCL), Fortin Consulting was hired to develop a winter maintenance/chloride management plan template(s). The vision was for this template to be used at the time of development or redevelopment permitting to require/request the property manager/responsible party to develop a winter maintenance plan. The group also recognized the templates would have value beyond the permitting process.

Due to the variety of organizations that may use this template and the variety of situations for its use, 3 levels of sophistication were created in the winter maintenance plan templates.

Once filled in, the management plan template, could be used by property managers or winter maintenance leadership to communicate a variety of high-level information contained in their winter maintenance plan with an organization such as a city/watershed/permitting organization/other. It is the intent of the HCCL that this template and communication tool would allow for better communication on winter maintenance practices between the property and the governing organization and encourage Smart Salting practices as described in the MPCA Smart Salting training classes and training manuals.

Process

As part of this effort, Fortin Consulting with the help of the HCCL gathered an advisory panel to provide input and feedback on the draft template. The panel consisted of representatives from multiple stakeholder groups including property managers (single properties, association of properties), in-house winter maintenance crew members, winter maintenance contractors, and others wishing to provide input. The large panel met formally twice, all panel members who agreed to be interviewed were interviewed privately to better understand their opinions and knowledge in this area. Panel members were also contacted by phone and/or email to provide additional input, as needed throughout the project. Subsets of the larger group were called into group meetings to vet various ideas and strategies as the project progressed.

Reviews were held on written materials and PPT concepts by technical advisors, then the larger HCCL group. A training will be held for larger HCCL group on how to use the templates once the product has been finalized.

As the template grew into 3 templates, a calculator was developed to help permitting agencies better select the level of winter maintenance plan template that would be appropriate for a development/redevelopment site.

Project Results

This project resulted in the creation of three winter maintenance management plan templates were created ranging from basic, intermediate, and detailed to allow for entities to select an appropriate level of winter maintenance management plan template for each site.

To make it easier for these entities to determine which management plan is most appropriate for a given site, a calculator was crafted that allows the user to answer a few simple questions to get a recommendation on which winter maintenance management template might work best. However, the user need not follow the advice of the calculator and may choose which template they feel is appropriate.

- This document includes the template language for each of the three templates.
- The basic template is fixed, offering no choice of tasks to add into this management plan.
- The intermediate template includes the basic template plus additional criteria.
- The detailed template includes the basic and intermediate templates plus additional criteria.
- The intermediate and detailed templates lay out various options for the entity to pick from to create a meaningful maintenance plan for that site.
- This document includes examples of how each of the three template types might be completed by the property manager or maintenance supervisor.

Template Selection Tool

Purpose: This Excel tool helps the user determine which winter maintenance management plan template would likely be most appropriate for the site. It is only a suggestion and any of the three templates can be selected by the user regardless of what the tool suggests.

How it works: The tool has a series of questions about the site with drop-down selection choices. When selections are made, a number is assigned to it. At the end, the spreadsheet averages those numbers. The user can use their numerical score to see what template is recommended for this site. See interpretation of results by scrolling to the right of the calculations.

The tool can be reached using this link:

<https://fortinconsulting.com/wp-content/uploads/2021/08/Calculator-Chloride-Management-Plan.xlsx>

Winter Maintenance Plan Cover Sheet

Property Manager Name:

Name of Development:

Address of Development:

Date:

Watershed:

Winter Maintenance Management Plan Used: (basic/intermediate/detailed)

I will work to reduce salt use at this location to protect our natural resources.

Signed: _____

Basic Plan Criteria

Required information:

- ☐ Individual responsible for the winter maintenance at this site
 - Name
 - Phone number
 - Email
- ☐ MPCA Smart salting certificate of at least one person involved in winter maintenance operations at this site
 - Name
 - Company
 - Phone number
 - Email
 - Proof of Certificate

*MPCA list of certified applicators

*MPCA-approved salt training calendar

Recommended:

Other low-salt practices (as described in intermediate and detailed plan)

*Parking lot manual (includes recommended practices for lowering salt use).

Basic Plan Example

Property Manager Name: Julie Jones

Name of Development: Park N Ride West

Address of Development: 123 main street, Wayzata MN 55391

Date: 7/3/21

Watershed: Minnehaha Creek

Winter Maintenance Management Plan Used: (basic/intermediate/detailed)

I will work to reduce salt use at this location to protect our natural resources.

Signed: *Julie Jones*

- ☒ Individual responsible for the winter maintenance at this site
 - **Name:** Joe Smith
 - **Phone number:** 688-876-3445
 - **Email:** Joes@gmail.com
- ☒ Smart salting certificate of at least one person involved in winter maintenance operations at this site:
 - **Name:** Sarah Kinney
 - **Company:** FCI
 - **Phone number:** 123-321-1234
 - **Email:** Sarah@Fortinconsulting.com
 - **Proof of Certificate:** 4/5/21



Intermediate Plan Criteria

All components of the [basic plan](#) + [intermediate plan](#)

Required information:

- ☐ Individual responsible for the winter maintenance at this site
 - Name
 - Phone number
 - Email
- ☐ MPCA Smart salting certificate of at least one person involved in winter maintenance operations at this site
 - Name
 - Company
 - Phone number
 - Email
 - Proof of Certificate

[*MPCA list of certified applicators](#)

[*MPCA-approved salt training calendar](#)

Permit issuer chooses from recommended fields:

Easy to verify:

- ☐ X% of winter maintenance crew are MPCA Smart Salting certified
- ☐ Subcontractors' organizations are level 2 MPCA Smart Salting certified

Easy to observe:

- ☐ No granular salt on surfaces after the event
- ☐ Proper storage of granular deicers
- ☐ Proper storage of liquid deicers
- ☐ Proper storage of snow (not in waters of the state)
- ☐ Educational signs on property (i.e. lower salt use and why, MPCA poster in lobby, MPCA window clings, Slippery area signs, It is winter: Walk carefully & drive carefully, Eco path no salt use area, How to use the salt bucket sign...)

[*Proper liquid storage requirements](#)

[*Smart salting resources for applicators](#)

Intermediate Plan Example

Property Manager Name: Julie Jones

Name of Development: Park N Ride West

Address of Development: 123 main street, Wayzata MN 55391

Date: 7/3/21

Watershed: Minnehaha Creek

Winter Maintenance Management Plan Used: (basic/intermediate/detailed)

I will work to reduce salt use at this location to protect our natural resources.

Signed: *Julie Jones*

- ☒ **Individual responsible for the winter maintenance at this site**
 - **Name:** Joe Smith
 - **Phone number:** 688-876-3445
 - **Email:** Joes@gmail.com
- ☒ **Smart salting certificate of at least one person involved in winter maintenance operations at this site:**
 - **Name:** Sarah Kinney
 - **Company:** FCI
 - **Phone number:** 123-321-1234
 - **Email:** Sarah@Fortinconsulting.com
 - **Proof of Certificate:** 4/5/21



- ☒ **50% of winter maintenance crew are MPCA Smart Salting certified**

10-person full time crew, 50% certified. More part time crew will be added during winter months and will work under the direction of the full-time crew. It is up to our subcontractors to train their own crew. We request that the subcontractors organization be level 2 certified as shown below.

Certified Crew and Date of Certification:

- Sarah Kinney, 4/5/2021
- Tom Johnson, 5/18/2021
- Maggie Halloway, 5/4/2021
- Trish Johnston, 5/7/2021
- Luis Lopez, 4/18/2021

- ☒ Subcontractors' organizations are level 2 MPCA Smart Salting certified
Certified subcontractors and Date of Certification:

- Jose's Snow and Ice, 5/6/21
- Walleye Landscaping, 6/8/21

- ☒ No granular salt on surfaces after the event

- We will strive to use the right amount. However, if we've overapplied, we will recover the extra and use it at a different event.

- ☒ Proper storage of granular deicers

- Our granular deicers will be stored under a cover and on an impermeable surface.

- ☐ Proper storage of liquid deicers

- We do not use liquid deicers

- ☒ Proper storage of snow (not in waters of the state)

- Snow will not be pushed into wetland #215 or Plymouth Creek.

- ☒ Educational signs on property

- Educational signage about smart salting use will be posted for our tenants at entrances from November through March.

Detailed Plan Criteria

All components of the [basic](#) and [intermediate plans](#) + detailed plan

Required information:

- ☐ Individual responsible for the winter maintenance at this site
 - Name
 - Phone number
 - Email
- ☐ MPCA Smart salting certificate of at least one person involved in winter maintenance operations at this site
 - Name
 - Company
 - Phone number
 - Email
 - Proof of Certificate

[*MPCA list of certified applicators](#)

[*MPCA-approved salt training calendar](#)

Choose from recommended fields:

Easy to verify:

- ☐ X% of winter maintenance crew are MPCA Smart Salting certified
- ☐ Subcontractors' organizations are level 2 MPCA Smart Salting certified

Easy to observe:

- ☐ No granular salt on surfaces after the event
- ☐ Proper storage of granular deicers
- ☐ Proper storage of liquid deicers
- ☐ Proper storage of snow (not in waters of the state)
- ☐ Educational signs on property

[*Proper liquid storage requirements](#)

[*Smart salting resources for applicators](#)

Choose from the recommended list:

- ☐ Documentation
 - ☐ Map or spreadsheet
 - ☐ Size of entire maintenance area
 - ☐ Estimated amount of deicer per pass*
 - ☐ Size of each maintenance area (i.e. main parking lot, front sidewalk...)

- ☐ Level of service for each area
- ☐ Estimated amount of deicer needed per pass for each area
- ☐ Annual report
 - ☐ Total deicer use (in lb/gal)
 - ☐ Challenges in reducing salt use
 - ☐ Successes in reducing salt use
 - ☐ Plans for smart salting next year

Choose from the list of best practices:

- ☐ Remove snow before applying deicer
 - ☐ Snow removal early and often to prevent compaction
 - ☐ Better and or more snow removal tools (brooms, segmented blades, blowers, underbody blades, shovels by salt bucket...)
- ☐ Measure pavement temperature and trend, use this information to guide deicer selection and application rates.
- ☐ Have available a variety of deicer/abrasive materials so you can select the product that will work best in the lowest commodity depending on the conditions.
 - ☐ If deicers are being use, they should include liquid deicers
- ☐ Improve salt bucket situation (educate users, provide alternatives like shovels and brooms, provide application rate guidance, restrict use, provide small scoops)
- ☐ Calibrate spreaders, put calibration card on spreaders.
 - ☐ Use equipment capable of spreading at low rates suggested in MPCA parking lot manual or work towards this goal as you acquire new equipment.
 - ☐ Create application rate charts so applicators can see calibration card, and application rate guidance and be able to choose most appropriate setting on their spreaders.
 - ☐ If your application rate charts are more than twice the rate of the MPCA Smart Salting application rate charts explain why this is necessary.
- ☐ Sweep up extra salt after events
- ☐ Hold post storm meetings or debrief with maintenance crew on what went well and how to continue to work toward smart salting goals.
- ☐ Educate building and grounds users on smart salting and the role they play with safe driving and walking practices.
- ☐ Close areas not needed in winter so there is less surface area to salt
- ☐ Consider areas where you might change level of service from bare pavement to not bare pavement. (Salted walking path to eco-path for dog walkers (no salt))
- ☐ Other

Detailed Plan Example

Property Manager Name: Julie Jones

Name of Development: Park N Ride West

Address of Development: 123 main street, Wayzata MN 55391

Date: 7/3/21

Watershed: Minnehaha Creek

Winter Maintenance Management Plan Used: (basic/intermediate/detailed)

I will work to reduce salt use at this location to protect our natural resources.

Signed: *Julie Jones*

☒ **Individual responsible for the chloride management onsite:**

- **Name:** Joe Smith
- **Phone number:** 688-876-3445
- **Email:** Joes@gmail.com

☒ **Smart salting certificate of at least one person involved in winter maintenance operations at this site:**

- **Name:** Sarah Kinney
- **Company:** FCI
- **Phone number:** 123-321-1234
- **Email:** Sarah@Fortinconsulting.com
- **Proof of Certificate:** 4/5/21



☒ 50% of winter maintenance crew are MPCA Smart Salting certified

- 10-person full time crew, 50% certified. More part time crew will be added during winter months and will work under the direction of the full-time crew. It is up to our subcontractors to train their own crew. We request that the subcontractors organization be level 2 certified as shown below.

Certified Crew and Date of Certification:

- Sarah Kinney, 4/5/2021
- Tom Johnson, 5/18/2021
- Maggie Halloway, 5/4/2021
- Trish Johnston, 5/7/2021
- Luis Lopez, 4/18/2021

☒ Subcontractors' organizations are level 2 MPCA Smart Salting certified

Certified subcontractors and Date of Certification:

- Jose's Snow and Ice, 5/6/21
- Walleye Landscaping, 6/8/21

☒ No granular salt on surfaces after the event

- We will strive to use the right amount. However, if we've overapplied, we will recover the extra and use it at a different event.

☒ Proper storage of granular deicers

- Our granular deicers will be stored under a cover and on an impermeable surface.

☐ Proper storage of liquid deicers

- We do not use liquid deicers

☒ Proper storage of snow (not in waters of the state)

- Snow will not be pushed into wetland #215 or Plymouth Creek.

☒ Educational signs on property

- Educational signage about smart salting use will be posted for our tenants at entrances from November through March.

☒ Documentation

☒ Map or spreadsheet

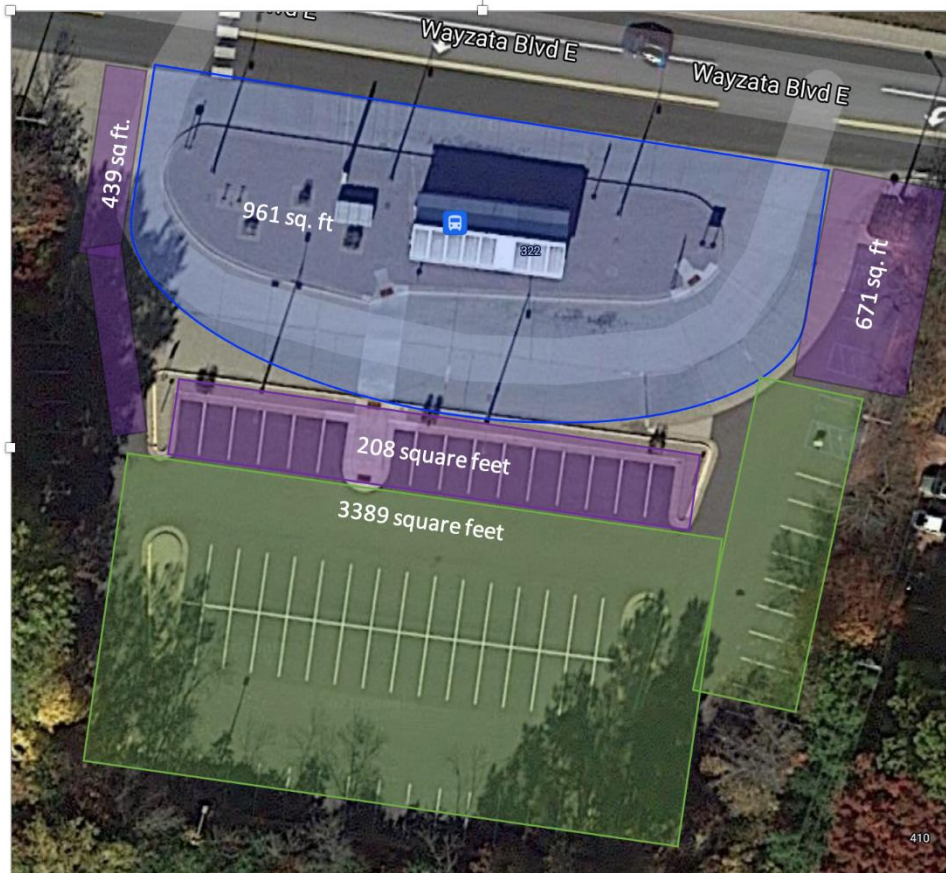
☒ Size of entire maintenance area: 6,168 sq. Ft

☒ Estimated amount of deicer per pass*: 25 lbs

*This is very close to the recommended rates in the MPCA Smart Salting for Parking Lots and Sidewalk manual.

☒ Size of each maintenance area (i.e., main parking lot, front sidewalk...): (see map/spreadsheet)

- ☒ Level of service for each area: (see map/spreadsheet)
- ☒ Estimated amount of deicer needed per pass for each area: (see map/spreadsheet)



Blue = bare pavement
 Purple = patches of bare
 Green = compacted snow

Location: Park-and-Ride	Area (sq. ft)	Average Material per Pass (lb)	Target	How Fast
Sidewalks around bus station	961	12	bare pavement	24 hours after snow
Entrance driveway	671	5	patches of bare	48 hours after snow
First row of parking lot	208	4	patches of bare	48 hours after snow
Rest of parking lot	3889	0	compacted snow	24 hours after snow
Exit drive	439	4	patches of bare	48 hours after snow

*Use abrasive if needed for traction on the compacted snow.

- ☒ Annual report
 - ☒ Total deicer use (in lb/gal) per pass: 625 pounds

- Salting Events: 25; 18 snow events, 5 freezing rain events, 2 melt and refreeze events
- ☒ Challenges in reducing salt use
 - It is difficult to stay within the MPCA Smart Salting Guidelines. We really want to add more salt than that, we are trying it out as an experiment. Our maintenance crew changed throughout the season, so it was difficult to get them in a training class.
 - We had a big snow event, and a lot of users of park-and-ride complained that they wanted higher salt use.
- ☒ Successes in reducing salt use
 - By the end of the season, most of the crew had at least one experience using liquid deicers.
- ☒ Plans for smart salting next year
 - Next year, we will improve performance by using more liquid deicers.
 - We hope to do a better job of sticking to the level of service plans highlighted in our spreadsheet.

Best Practices:

- ☒ Remove snow before applying deicer
 - ☒ Snow removal early and often to prevent compaction
 - We will remove snow before applying deicer. We will do our best to remove it early and often so that compaction doesn't occur.
 - ☐ Better and or more snow removal tools (brooms, segmented blades, blowers, underbody blades, shovels by salt bucket...)
- ☐ Measure pavement temperature and trend, use this information to guide deicer selection and application rates.
- ☒ Have available a variety of deicer/abrasive materials so you can select the product that will work best in the lowest commodity depending on the conditions.
 - We will have more than one type of deicer available and choose the most effective one based on our pavement temperature and trend.
- ☐ If deicers are being use, they should include liquid deicers
- ☒ Improve salt bucket situation (educate users, provide alternatives like shovels and brooms, provide application rate guidance, restrict use, provide small scoops)
 - The salt bucket by the entrance to the park-and-ride booth will contain a very small scooper and a sign about why we want to reduce salt use. ("Chloride pollutes our waters. Please use salt sparingly.")
- ☒ Calibrate spreaders, put calibration card on spreaders.
 - We will calibrate our spreaders before the first snow.

- ☐ Use equipment capable of spreading at low rates suggested in MPCA parking lot manual or work towards this goal as you acquire new equipment.
- ☐ Create application rate charts so applicators can see calibration card, and application rate guidance and be able to choose most appropriate setting on their spreaders.
 - ☐ If your application rate charts are more than twice the rate of the MPCA Smart Salting application rate charts explain why this is necessary.
- ☐ Sweep up extra salt after events
- ☒ Hold post storm meetings or debrief with maintenance crew on what went well and how to continue to work toward smart salting goals.
 - We will start conducting post-storm meetings, discussing the challenges and successes we had with salt use.
- ☒ Educate building and grounds users on smart salting and the role they play with safe driving and walking practices.
 - We are going to educate the grounds crew and work staff at the Park-and-Ride about the lower salt use and why it is necessary. We will encourage them to walk and drive carefully to avoid falls/crashes.
- ☐ Close areas not needed in winter so there is less surface area to salt
- ☐ Consider areas where you might change level of service from bare pavement to not bare pavement. (Salted walking path to eco-path for dog walkers (no salt))
- ☒ Other
 - We will speak about our efforts to reduce salt at the annual Minnesota Park-and-Ride meeting.

To: Elm Creek WMO Commissioners
Elm Creek TAC

From: Erik Megow, PE
Diane Spector

Date: November 3, 2022

Subject: MPCA Climate Resilience Grants

**Recommended TAC/
Commission Action**

Discuss. TAC consider making a recommendation to the Commission regarding preparation of grant application. Commission consider authorizing staff to prepare a grant application.

The MPCA is now taking applications for the Planning Grants for Stormwater, Wastewater, and Community Resilience program (attached). \$395,000 is available to support climate-planning projects in communities across Minnesota. This funding will help communities assess vulnerabilities and plan for the effects of Minnesota's changing climate in three areas:

- Improving stormwater resilience and reducing localized flood risk
- Improving the resilience of wastewater systems
- Adapting community services, ordinances, and public spaces

This was a new grant program in 2021, and the TAC considered applying for a grant then to use the HUC8 model to estimate the potential impacts of future precipitation patterns. At that time the TAC believed the model was not yet ready to be used for that purpose. Given the updates made to the model earlier this year, we expect it to be now more useful for planning.

Last year Shingle Creek did submit a grant application, but was unsuccessful, and we expect that Commission will reapply this year. We recommend that the Commission consider the same general work plan as Shingle Creek. Last year the grant program did fund grants to a few other WMOs and cities to undertake essentially the same activities:

1. Model and map midcentury precipitation scenarios to create projected flood inundation areas for the 1%+ 24-hour rainfall event and the 1%+ 10 day event. A 'plus' is a rainfall depth taken from the 90th percentile estimate for the given rainfall frequency. FEMA often evaluates not only the 1% storm event but also the 1%+ storm event as a way to provide perspective on the range of values one COULD expect in the 1% event. The State Climatology Office also suggests using the 90th percentile as a proxy for midcentury precipitation.
2. Identify potential future flooding risks in the watershed by reviewing known flooding areas, infrastructure, structures, and emergency vehicle routes in or in close proximity to predicted future hazardous flood conditions.

3. Develop policy recommendations for using the scenario data. For example, this modeling could be used to help the cities and county better understand how to properly design new infrastructure such as culverts, bridges, etc. that would be expected to have a mid-century useful life.

The cost of undertaking the Shingle Creek workplan activities was estimated as just under \$25,000, with a grant request of about \$22,000 and a 10% local match of about \$2,500. We believe completing the same work for Elm Creek will likely be in that ballpark but haven't yet updated that estimate.

Applications are due January 12, 2023. If the TAC recommends and the Commission approves pursuing this grant, we will bring a draft workplan and application to the Commission at the December 14, 2022 meeting. The level of effort to prepare the application and associated documents will be minimal since we can reuse much of what was prepared for Shingle Creek last year.



520 Lafayette Road North
St. Paul, MN 55155-4194

Planning Grants for Stormwater, Wastewater, and Community Resilience Request for Proposals (RFP)

The RFP assists applicants in applying for state grants. This document describes the State Fiscal Year 2023 (FY23) Planning Grants for Stormwater, Wastewater, and Community (SWC) Resilience, including information on who may apply for funding, activities eligible for funding and other information that will help the applicants plan their project and submit a competitive application. Applications are due no later than **Thursday, January 12, 2023, at 4:00pm Central Time (CT)**.

The applicant should check the [SWIFT Supplier Portal](#) and the Minnesota Pollution Control Agency (MPCA) [Planning Grants for SWC Resilience](#) webpage for any updates.

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The Grant Application Form, Workplan and Budget, Sample Grant agreement, Questions and Answers, and any addendums can be found in the [SWIFT Supplier Portal](#).

1. Project overview

Minnesota's climate is changing, causing harmful effects in communities across our state today. The impacts experienced include risks to health and safety, overwhelmed infrastructure, damaged property, dying trees and culturally important native species, and the inability of population centers to cool off overnight. Climate trends identified through monitoring over decades of changes in temperature and precipitation, snow depth, and lake ice, storms and droughts, our growing season, and more show that Minnesota is becoming warmer and wetter, with more damaging rains, and cold weather warming. More extreme heatwaves and extended periods of drought alternating with intense precipitation are expected in the future.

During the 2021 Legislative Session, 1st Special Session, ongoing funding was appropriated in the Omnibus bill [Chapter 6 – S.F.No.20](#), Article 1, Sec. 2, Subdivision 7(h) to increase the resilience of water infrastructure and communities in Minnesota. This is the third RFP for funding from this new grant program.

This funding provides an opportunity for communities to assess vulnerabilities and plan for the effects of Minnesota’s changing climate in three areas: how to increase resilience to stormwater and reduce localized flood risk, how to improve the resilience of wastewater systems, and how to reduce human health effects and adapt community services, ordinances, and public spaces to the changing climate.

2. Funding

Approximately \$395,000 is available for planning projects to be awarded during FY23. Grant projects must be completed no later than June 30, 2024. There is no minimum and no maximum grant award under this RFP.

Match requirement

The minimum match requirement is 10% (ten percent) of the grant amount, either cash or in-kind, provided by any organization involved in the project. Grantees will be expected to track and report all match provided for the project by kind and source, even if the amount exceeds 10%. This will assist MPCA with better understanding of project funding needs for future grant solicitations.

Reimbursement schedule

Grant funding for eligible costs of the planning project will be reimbursed during and upon completion of the approved project with approved invoices.

Invoices for expenses incurred to-date may be submitted as frequently as monthly. Grantees are required to submit their first invoice no later than midway through the project. A final invoice for payment of remaining grant funds expended by the project is required to be submitted at the completion of the project. Payment of the final 10% of grant funds will be held back until the project is completed satisfactorily and all deliverables have been submitted and approved. Invoices are sent directly to MPCA Accounts Payable with cc to the MPCA Authorized Representative.

3. Eligible and ineligible applicants

Eligible applicants

Tribal Nations, and Local Governmental Units (LGUs) including only cities, counties, towns (townships), soil and water conservation districts (SWCDs), water management organizations (WMOs), water districts (WDs), regional development commissions (RDCs), and the Metropolitan Council of the Twin Cities region, and that are located within the geographic boundaries of the state of Minnesota are eligible applicants.

An eligible applicant may designate a different organization to serve as fiscal agent for the grant, upon approval by the MPCA.

Note: Applicants who applied for the FY23 Small Communities Planning Grants for Stormwater, Wastewater, and Community Resilience RFP are eligible to apply or to be included in an application as a partner under this RFP, HOWEVER awarded applicants will not be eligible to receive an award under this RFP for the same project.

Ineligible applicants

- Any other organization or individual not listed above as an eligible applicant.
- Entities that are currently suspended or debarred by the State of Minnesota and/or the federal government are ineligible applicants.
- The MPCA may also deem an applicant ineligible because of, but not limited to: enforcement issues, labor standards, tax status, past grant performance, or other such issues.

4. Eligible and ineligible projects

Eligible projects

Eligible projects are those that conduct **planning for increased resilience** to the impacts of Minnesota's changing climate (i.e. already becoming warmer and wetter with more damaging rains and cold weather warming, and expected to have more extreme heat and drought in the future) **within any of the following three focus areas: stormwater, wastewater, community resilience**.

Some examples of eligible planning projects in the three focus areas –

Stormwater resilience:

- Vulnerability assessment using a hydrologic/hydraulic model such as XP-SWMM or equivalent to identify areas (e.g. creek corridors, bridges, intersections, etc.) within a tribal/local governmental unit that are at risk for flooding. Includes assessment of changes in future precipitation with storm events of greater intensity and frequency to evaluate how to optimize resiliency of stormwater infrastructure.
- Inventory of water infrastructure issues developed using new or existing modeling information to identify critical impacts (e.g. number of structures flooded, frequency of flooding, social vulnerability, local environmental impacts, etc.), including but not limited to consideration of existing asset management plans. Provides a prioritized list of critical areas needing infrastructure improvements to increase resilience.
- Feasibility study that compares design alternatives (e.g. replacing small or undersized stormwater infrastructure, adding surface or underground stormwater storage areas, increasing infiltration of stormwater, etc.) to address known or predicted areas of flooding within a tribal/local governmental unit. Identifies a preferred alternative with sufficient information to support consideration for future construction funding.
- Plan development (conducted in-house or by contract) for the bidding or contracting, design work, modeling, etc. needed for self-funded projects (those not on the Project Priority List (PPL) / Intended Use Plan (IUP) but which may include other outside funding sources) that have been identified by a tribal/local governmental unit risk assessment or adaptation/resilience plan.

Wastewater resilience:

- Risk assessment of wastewater facilities using the Environmental Protection Agency (EPA) Climate Resilience Evaluation and Awareness Tool (CREAT) or similar analysis to discover which extreme weather hazards pose significant challenges to the utility, identify the critical assets at risk, and explore various actions to protect them.
- Climate vulnerability assessment of public and/or privately-owned sewer and/or sewer sheds.
- Planning and investigative work for climate resiliency of wastewater, sewer, and or Inflow & Infiltration (I&I) projects to determine implementation plan for self-funded projects (that are not anticipated to be part of a Facilities Plan for a Public Facilities Authority (PFA) /Project Priorities List (PPL) but which may include other outside funding sources)
- Plan development (conducted in-house or by contract) for the bidding or contracting, design work, modeling, etc. needed for self-funded projects (those not on the Project Priority List (PPL) / Intended Use Plan (IUP) but which may include other outside funding sources) that have been identified by a risk assessment or adaptation/resilience plan (CREAT or other).

Community resilience:

- Community-wide climate vulnerability assessment involving stakeholders and authentic community engagement processes to identify community assets (such as parks and recreational areas,

roads, public buildings, local power infrastructure, etc.) at risk from more extreme weather and changing climate conditions, as well as local population segments at greater risk from harm, stress or displacement due to climate change.

- Community-wide climate adaptation planning involving stakeholders and authentic community engagement to identify specific strategies, policies, actions, and responsible parties needed for equitable adaptation.
- Plan development (costing, bidding or contracting, design work, modeling, etc.) needed for projects that will increase the climate resilience of one or more community assets identified by a community-wide vulnerability assessment or climate adaptation plan.

Ineligible projects

Projects that do not fit any of the three focus areas – stormwater, wastewater, or community resilience – and **projects that are not planning-oriented are ineligible.**

5. Eligible and ineligible costs

Eligible costs

Any cost that is directly related to the workplan tasks of an eligible planning project and not deemed ineligible below or by MPCA staff.

Ineligible costs

Ineligible costs include costs that are not directly related to the workplan tasks of an eligible planning project. The following costs, including but not limited to, even if they are directly related to the project, are ineligible:

- Any expenses incurred before the contract is fully executed including applicant's expense for preparing the eligibility and cost applications
- Bad debts, late payment fees, finance charges or contingency funds, interest, and investment management fees
- Attorney fees
- Employee worksite parking
- Lobbying, lobbyists and political contributions
- Mark-up on purchases and/or subcontracts
- Taxes, except sales tax on eligible equipment and expenses
- Activities associated with permit fees
- Activities addressing enforcement actions or that involve a financial penalty
- Memberships (including subscriptions and dues)
- Reimbursement to or stipends to non-staff stakeholders for their attendance at stakeholder participation meetings or their related expenses
- Food (other than staff per diem)
- Alcoholic refreshments
- Entertainment, gifts, prizes and decorations
- Merit awards and bonuses
- Donations and fundraising
- Purchase of equipment (leasing or paying for services that include use of equipment during an eligible project are allowed)

- Computer(s), tablets, and software, unless unique to the project and specifically approved by the MPCA as a direct expense
- Purchase or rental of mobile communication devices such as pagers, cell phones, and personal data assistants (PDAs), unless unique to the project and specifically approved by the MPCA.

6. Priorities

It is the policy of the State of Minnesota to ensure fairness, precision, equity and consistency in competitive grant awards. This includes implementing diversity and inclusion in grant-making. [The Policy on Rating Criteria for Competitive Grant Review](#) establishes the expectation that grant programs intentionally identify how the grant serves diverse populations, especially populations experiencing inequities and/or disparities.

This grant prioritizes communities with higher concentrations of low-income residents and people of color, including tribal communities. Click on the link below for MPCA's criteria and interactive mapping tool (recently updated on the MPCA website with data from a five-year 2016-2020 summary of the American Community Survey) to see if the project is located in an area of concern for Environmental Justice (EJ):

<http://mpca.maps.arcgis.com/apps/MapSeries/index.html?appid=f5bf57c8dac24404b7f8ef1717f57d00>.

This grant also prioritizes:

- Projects located in Minnesota outside of the 7-county Metropolitan Area comprised of Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties.
- Stormwater projects that address localized flooding.

7. Application instructions

All applicants must complete the Grant Application Form, work plan and budget. Applications without all forms submitted will be deemed ineligible.

8. Application submission instructions

Applications must be received electronically by the MPCA by **Thursday, January 12, 2023, at 4pm CT**. Application submissions received after the deadline will not be considered eligible.

Applications must be submitted through the [SWIFT Supplier Portal](#). Note: The RFP is termed an "Event" within SWIFT. MPCA is not responsible for any errors or delays caused by technology-related issues.

Applicants do not need to log in to view the RFP and associated documents in the SWIFT system. Applicants interested in applying will need to register as a bidder in the system by clicking on the [SWIFT Supplier Portal](#), then *Register for an Account and Register as a Bidder*. Applicants should allow up to two business days to become registered as a Bidder.

Questions regarding submitting an application can be directed to the Vendor Assistance Help Desk at 651-201-8100, option 1 or by clicking on *Supplier Portal Help* within the [SWIFT Supplier Portal](#).

Applications submitted via any other method, including but not limited to email, fax, mail, in-person deliveries, will not be accepted.

9. Application questions

The MPCA is obligated to be transparent in all aspects surrounding grant work. To meet this obligation, **all questions must be submitted in the same manner, and answers are only provided via the [SWIFT Supplier Portal](#)**. It is the applicant's responsibility to check the [SWIFT Supplier Portal](#) and [MPCA website](#) for the most recent updates.

Applicants who have any questions regarding this RFP must email questions to grants.pca@state.mn.us, subject line: “FY 23 Planning Grants for SWC Resilience”, no later than 4pm CT on **Friday, January 6, 2023**. Answers to questions will be posted frequently in the [SWIFT Supplier Portal](#).

MPCA personnel are not authorized to discuss this RFP with applicants outside of the Question-and-Answer forum. Contact regarding this RFP with any MPCA personnel may result in disqualification.

10. Application review process

Applicants are encouraged to review the Evaluation Score-Sheet (Exhibit A) before submitting their application and make sure they are providing all the relevant information. Formal review of applications will be conducted by a team of MPCA staff.

Applications received by the grant deadline will be reviewed by MPCA staff using a two-step process described below. **Late applications will not be considered for review.**

Step 1: Eligibility review

The MPCA will determine if eligibility requirements are met. Any application found to be ineligible will be eliminated from further evaluation. Minimum requirements:

- Applicant is eligible as described in section 3.
- Project is eligible as described in section 4.
- All required forms submitted by the deadline.

Step 2: Application scoring

Only applications meeting the eligibility criteria under Step 1 will be considered for scoring in Step 2. Reviewers will evaluate applications per project using the weighted criteria listed in Exhibit A.

In addition to the ability to partially award projects, the MPCA reserves the right to refrain from awarding any grants.

In the event two applicants are tied in the scoring and there isn't sufficient funding to award both projects, the MPCA will select the applicant with the highest score in the following criteria, in descending order, until a winner is able to be determined:

- Environmental Justice
- Project located outside the 7-county Twin Cities Region
- Stormwater project that addresses localized flooding

Notification

All applicants will be notified by MPCA staff after approximately 4-6 weeks of application due date. Applicants selected for funding will be contacted concerning the next steps in the award process, including execution of the appropriate agreements with follow-up by the grantee within a reasonable time frame.

11. Grantee responsibilities

Awardees are required to be a registered vendor in SWIFT and will sign the grant agreement using DocuSign.

Grant agreement

Each awardee must enter into a grant agreement. The agreement will address the conditions of the award. Once the agreement is signed, the recipient is required to comply with all conditions.

Reporting requirements

Email updates about the status of the project are required to be provided to the MPCA Authorized Representative whenever an invoice is submitted to MPCA Accounts Payable. The MPCA Authorized Representative will not approve an invoice through the state system without this project update. A Grant Project Final Report, in a format provided to the Grantee by the MPCA, is required to be submitted to the MPCA Authorized Representative at the same time as the final invoice is submitted to MPCA Accounts Payable.

Public data

Applications are private or nonpublic until opened. Once the applications are opened, the name and address of the applicant and the amount requested is public. All other data in an application is private or nonpublic data until all agreements are fully executed. After all agreements are fully executed, all remaining data in the applications is public with the exception of trade secret data as defined and classified in [Minn. Stat. § 13.37](#). A statement by a grantee that the application is copyrighted or otherwise protected does not prevent public access to the application ([Minn. Stat. § 13.599](#), subd. 3).

Conflict of interest

MPCA will take steps to prevent individual and organizational conflicts of interest, both in reference to applicants and reviewers per [Minn. Stat. §16B.98](#) and [Conflict of Interest Policy for State Grant-Making](#).

Organizational conflicts of interest occur when:

- a grantee or applicant is unable or potentially unable to render impartial assistance or advice to the Department due to competing duties or loyalties
- a grantee's or applicant's objectivity in carrying out the grant is or might be otherwise impaired due to competing duties or loyalties

In cases where a conflict of interest is suspected, disclosed, or discovered, the applicants or grantees will be notified and actions may be pursued, including but not limited to disqualification from eligibility for the grant award or termination of the grant agreement.

Grant Monitoring

[Minn. Stat. §16B.97](#) and [Policy on Grant Monitoring](#) require the following:

- One monitoring visit during the grant period on all state grants of \$50,000 and higher.
- Annual monitoring visits during the grant period on all grants of \$250,000 and higher.
- Conducting a financial reconciliation of grantee's expenditures at least once during the grant period on grants of \$50,000 and higher. For this purpose, the grantee must make expense receipts, employee timesheets, invoices, and any other supporting documents available upon request by the State.

The monitoring schedule will be determined at a later date.

Grantee Bidding Requirements

For Municipalities

Grantees that are municipalities must follow:

- The contracting and bidding requirements in the Uniform Municipal Contracting Law as defined in [Minn. Stat. §471.345](#)
- The requirements of prevailing wage for grant-funded projects that include construction work and have a total project cost of \$25,000 or more, per [Minn. Stat. §§177.41](#) through [177.44](#). These rules require that the wages of laborers and workers should be comparable to wages paid for similar work in the community as a whole.

The grantee must not contract with vendors who are suspended or debarred in MN:

<http://www.mmd.admin.state.mn.us/debarredreport.asp>.

Audits

Per [Minn. Stat. § 16B.98](#) Subdivision 8, the grantee's books, records, documents, and accounting procedures and practices of the grantee or other party that are relevant to the grant or transaction are subject to examination

by the granting agency and either the legislative auditor or the state auditor, as appropriate. This requirement will last for a minimum of six years from the grant agreement end date, receipt, and approval of all final reports, or the required period of time to satisfy all state and program retention requirements, whichever is later.

Affirmative Action and Non-Discrimination requirements for all Grantees:

- A. The grantee agrees not to discriminate against any employee or applicant for employment because of race, color, creed, religion, national origin, sex, marital status, status in regard to public assistance, membership or activity in a local commission, disability, sexual orientation, or age in regard to any position for which the employee or applicant for employment is qualified. [Minn. Stat. §363A.02](#). The grantee agrees to take affirmative steps to employ, advance in employment, upgrade, train, and recruit minority persons, women, and persons with disabilities.
- B. The grantee must not discriminate against any employee or applicant for employment because of physical or mental disability in regard to any position for which the employee or applicant for employment is qualified. The grantee agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified disabled persons without discrimination based upon their physical or mental disability in all employment practices such as the following: employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. [Minnesota Rules, part 5000.3500](#).
- C. The grantee agrees to comply with the rules and relevant orders of the Minnesota Department of Human Rights issued pursuant to the Minnesota Human Rights Act.

Voter Registration Requirement:

The grantee will comply with [Minn. Stat. § 201.162](#) by providing voter registration services for its employees and for the public served by the grantee.

Exhibit A: Application evaluation score sheet

A 100 – point scale will be used to evaluate eligible applications and develop final recommendations.

Evaluation Category	Maximum Points
Project has clearly defined objectives, tasks that describe how those objectives will be met, a realistic timeframe, and a detailed budget that includes reasonable and cost-effective expenses.	20
Organizations and specific individuals that will do the work on the project are well-qualified for their roles with the knowledge, skills and abilities to carry out the project successfully.	15
Project will benefit and engage communities within area(s) of concern for EJ. Points will be scored as follows: <ul style="list-style-type: none"> • 5 pts: project located in an EJ area • 5 pts: substantive engagement • 5 pts: project will yield benefits in an EJ area 	15
Project methodology effectively incorporates consideration of current climate trends and projections of future climate conditions and how the impacts are anticipated to affect the general location of the project.	10
The project will address a much-needed resiliency planning issue that can make a meaningful difference to the community's preparedness for Minnesota's changing climate, including human health impacts.	15
The project will provide results that position a tribal/local government to take further action, assign responsibility for implementation, and/or pursue further funding to implement the resilience project(s) for which planning was completed	15
The project is located in Minnesota outside the 7-county Metropolitan Area.	5
The project is a stormwater project to address localized flooding.	5
Total	100

elm creek Watershed Management Commission

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STAFF REPORT November 3, 2022

a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran. The City of Corcoran contacted the Commission in 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held to assess the nature and extent of the violations and a restoration order was issued to Mayers. In 2018, an appeal of the restoration order was received by the Board of Water and Soil Resources. BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers. The parties came to an agreement to resolve the violation in 2021. The agreement was signed by BWSR, Corcoran and Mayers. Commission Staff have not been provided with a copy of the agreement to date and the agreement does not resolve the Commission's floodplain fill issue from the wetland work. Staff sent correspondence to that effect to Mayers on February 1, 2022, requesting an application and site plan. *The email chain of correspondence to BWSR was discussed at the October Commission meeting. They requested additional follow-up information from Staff and Corcoran. Because of the change in wetland advisors and the busy WCA season that is occurring at present, Corcoran requested this item to continue later this fall, most likely the latter part of November or early December.*

b. 2021-025 Hackamore Road Reconstruction, Corcoran/Medina. The cities of Corcoran and Medina plan to reconstruct 1.3 miles of Hackamore Road from just west of CR 116 to CR 101. The project will add 4.4 acres of new impervious surface by widening the roadway and adding turn lanes, pedestrian facilities, and utility improvements. To meet the Commission's stormwater requirements, the project will largely rely on adjacent developments (existing and proposed) to incorporate BMPs to provide rate control, volume control, and water quality control. Staff reviewed the early application and provided comments to the applicant. *Staff has reviewed various recent submittals for an interim reconstruction and stormwater plan and has worked with the applicant to determine interim impacts and how the impacts will be mitigated in the future. A finding of fact memo dated November 2, 2022, approving the interim impacts and how the applicant will meet the Commission's rules when future developments are constructed, is provided for the Commission's November 2022 meeting.*

c. 2021-029 TriCare Grocery, Maple Grove. The project will construct a grocery store, retail, and associated parking on approximately 2.5 acres of the 62.7-acre TriCare parcel, located just north of County Road 30 and southwest of I-94. The project was reviewed for Rules D and E. Staff issued a denial in 2016 when the regional stormwater BMP project was constructed. On November 10, 2021, the Commission approved this project contingent upon receipt of the escrow balance and the City reconstructing the basin to meet Commission rules and standards per Staff findings dated November 1, 2021.

d. 2021-031 Cook Lake Edgewater, Corcoran/Maple Grove. The application is for a 28.4-acre development just north of Bass Lake Road, on both sides of the Corcoran-Maple Grove municipal boundary. The development includes 60 single-family homes in Maple Grove and 12 single family homes and senior care and memory centers in Corcoran. The project was reviewed for Rules D, E, G, and I and approved at the November 2021 meeting with four contingencies as outlined in Staff's November 10, 2021, findings. *This project will be removed from the report upon receipt of the escrow balance.*

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e. 2021-034 BAPS Temple, Medina. This project includes construction of a Hindu Temple, dining hall, gymnasium, parking lot and a permanent residency for the temple's priest on a 19.7-acre parcel at 1400 Hamel Road. The parcel currently serves as a farmstead with a farmhouse and barns. The project was reviewed for Rules D, E, G, and I and approved at the October 2021 meeting contingent on three Conditions outlined in Staff's findings dated October 4, 2021: (1) receipt of the escrow balance, (2) an operation and maintenance agreement with the City, and (3) a geotechnical report provided to the Commission. An update from the applicant's engineer on July 21, 2022, stated, "The client is holding on[to] construction documents temporarily; once they give us the go-ahead we will work to finalize the items below, likely by this fall [2022]." On November 3, 2022, Dusty Finke informed the Commission that the applicant has amended the site layout a bit and anticipates construction in 2023.

f. 2021-037 Marsh Pointe, Medina. This project (also called the Arrowhead Drive project) includes construction of 38 single-family homes on the east side of Arrowhead Drive, west of Lake Medina. The development will replace four existing homes. The project was reviewed for Rules D, E, F, G, and I and approved at the December 2021 meeting conditioned on receipt of four items listed in Staff's revised December 8, 2021, findings. (1) the escrow balance, (2) a Stormwater Maintenance Agreement, including irrigation system, being entered into with the City, (3) a wetland replacement plan approved by the LGU and the TEP, and (4) the buffer plan contingent upon approval of the wetland replacement plan. The Stormwater Agreement was received on July 25, 2022. *This project will be removed from the report upon receipt of the escrow balance.*

g. 2021-038 Bellwether 6th/Amberly, Corcoran. The Bellwether 6th Addition and Amberly 1st Addition are developments located just west of CR 101 and south of Stieg Road proposed for single-family homes. They are part of a 74 acre parcel also known as the Van Blaricom development. This project is located immediately west of the previous Bellwether developments (Encore) and was reviewed for Rules D, E,F, G, and I. The project was approved at the December meeting with five conditions, listed in Staff findings revised December 8, 2021. All items have been resolved. *The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.*

h. 2021-039 I94 Logistics Center, Rogers. This is a 30.90-acre site located between I-94 and County Road 13 (Brockton Lane). A proposed warehouse, parking lot, and loading dock will create 12.5 acres of new impervious on the currently undeveloped site. Approximately 12.25 acres of the parcel is in a conservation easement to protect woodlands and wetlands and cannot be developed. The project was reviewed for Rules D, E, G, and I and approved at the October 2021 meeting with three conditions as outlined in Staff's October 6, 2021, findings. *This project will be removed from the report upon receipt of the escrow balance, the only remaining condition.*

i. 2021-043 Northwood Community Church, Maple Grove. The existing project site is owned by Northwoods Community Church and functions as church offices. The proposed project demolishes those office buildings and constructs a church on the 10.56-acre parcel. In Staff's findings dated January 19, 2022, the project was reviewed for Rules D, E, G, and I and approved at the February 2022 meeting contingent on receipt of the escrow fee balance and a Stormwater Maintenance Agreement between the applicant and the City. The applicant has submitted the signed Agreement. *This project will be removed from the report upon receipt of the escrow balance.*

j. 2021-044 Balsam II Apartments, Dayton. The Commission approved this project in January 2022. The final infiltration testing of the stormwater basin and receipt of the escrow balance are the only conditions outstanding from Staff's findings dated December 22, 2021. As of November 2, 2022, the City is awaiting the

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test results so that the outstanding escrow balance can be invoiced and this project can be closed.

k. 2021-046 Len Busch Roses, Plymouth. This project proposes to add an additional 25,000 SF greenhouse on this site, disturbing 1.70-acres and creating 0.64-acres of new impervious. The project was reviewed for Rules D and E and approved at the February 2022 meeting contingent on receipt of the escrow fee balance and a Stormwater Maintenance Agreement between the applicant and the City per Staff findings dated January 12, 2022. *The remaining escrow has been received. This project will be removed from the report.*

l. 2021-047 CR 10 Box Culvert Replacement, Corcoran. Hennepin County is replacing an existing 6'x10" box culvert with a 6'x6", 6'x4' and a 36" CMP pipe to replicate the existing flows of Hennepin County Ditch #16 under CR 10. The project was reviewed for Rules D, E, F, G, and H and approved at the February 2022 meeting contingent on receipt of the escrow fee balance and an approved wetland alterations plan as outlined in Staff's findings dated January 13, 2022. The applicant has provided an approved wetland alteration plan. *This project will be removed from the report upon receipt of the escrow balance.*

m. 2021-048 Bellwether-Newman West, Corcoran. This parcel is the most recent phase of the Bellwether/Encore development and is located in the southwest 58-acre quadrant of the overall project (previously called the Encore development), west of CR 101, south of Stieg Road, and north of CR 30. It was reviewed for grading and erosion control and consistency with the previous approvals. The original phase I grading and the overall stormwater management plans for this project were approved by the Commission under project 2018-032. In their findings dated November 24, 2021, Staff recommended approval of the project with four conditions. The Commission approved Staff's recommendations at their December 9, 2021, meeting. *The remaining escrow has been received. This project will be removed from the report.*

n. 2021-049 Dayton Interchange Business, Dayton. This is a 14-acre site, proposed to be developed into a 124,000 SF office/warehouse building along with truck staging area, parking areas and related utilities. Two filtration basins are proposed for stormwater management and construction of 6.93 acres of new impervious areas. The Commission approved Staff's findings and recommendations dated June 26, 2022. Approval is contingent upon. 1) An operation and maintenance plan for the stormwater facilities on this site being approved by the City of Dayton; 2) Filter media mix C in the detail for Basin 1 on sheet 9.01 be changed to Mix C; and 3) reconciliation of the escrow fee. *The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.*

o. 2021-050 Evanswood, Maple Grove. This proposed development will construct 227 single-family and 138 townhomes in the northwest corner of the City, disturbing 108.5-acres, and creating 45.8-acres of impervious surfaces, 41.4-acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, F, G, and I. Staff findings dated March 2, 2022, were approved at the March meeting with five conditions. Two conditions remain outstanding: (1) receipt of the final escrow balance, and (2) receipt of a Stormwater Maintenance Agreement that is acceptable to the City and the Commission. *The City is working on the agreement at this time.*

p. 2021-051 Fields of Nanterre, Plymouth This project is the proposed maintenance of an existing drainage swale to remove accumulated sediment and cattails and does not create any new impervious surfaces. The project triggers Rules E and G. In findings dated November 22, 2021, Staff administratively approved the project contingent on (1) final escrow balance being reconciled and (2) an approved wetland no-loss or alternate approved wetland decision type being submitted to the Commission. Staff findings were approved by the Commission at their December 8, 2021, meeting. The WCA Notice of Decision-No Loss, was

received in the Commission office on July 21, 2022. *This project will be removed from the report upon receipt of the escrow balance.*

q. 2021-052 Norbella Senior Living, Rogers. This project will construct a 40-unit senior living facility on South Diamond Lake Road. The proposed disturbance is 2.4-acres with net, new impervious surfaces of 1.4-acres. The project was reviewed for Rules D and E. Staff findings dated February 14, 2022, were approved by the Commission at their March 9, 2022, meeting with three conditions: (1) final escrow balance being reconciled, (2) a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission, and (3) a detail being added to the construction drawings showing the inspection ports being installed along the isolator row of the underground filtration system.

r. 2021-053 Towns at Fox Creek, Rogers. This proposed development will construct 150 multi-family townhomes between Industrial Boulevard and Hynes Road, disturbing 15.4-acres with 7.46-acres of impervious, 5.88-acres of which is net, new impervious surfaces. The project was reviewed for Rules D, E, and G and approved at the Commission's May meeting with three conditions: (1) final escrow determination, (2) a stormwater maintenance agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMPs on the site that will not be operated and maintained by the City, and (3) WCA approval of the wetland fill and decision of outcome from the TEP, as outlined in Staff findings dated May 2, 2022. *This project will be removed from the report upon receipt of the escrow balance.*

s. 2021-054 Stotts Family Farm Grassed Waterways, Corcoran. This is a 100-acre agricultural parcel located on the east side of CR 19 about one mile north of the intersection of CR 19 and Highway 55. The landowner is installing five grass waterways to stabilize channelized areas in his cropland. This work will grade and shape the channel areas to accommodate the crossing of farm equipment and establish perennial grass vegetation to prevent future gully erosion. The project was administratively reviewed and approved for Rule E by Staff in their findings dated October 1, 2021. Revised plans received March 28, 2022, meet Commission requirements. *The escrow balance has been refunded and this item will be removed from the report.*

t. 2021-055 Morningside Estates 6th Addition, Champlin. This proposed development will construct seven single-family homes adjacent to the recently reviewed Oaks at Bauer Farm (2021-012) on the north side of French Lake Road, disturbing 2.8-acres and creating 0.8-acres of net, new impervious surfaces. The project was reviewed for Rules D and E and received approval at the Commission's April meeting contingent on final escrow determination and O&M agreements with both the City and with the Oaks at Bauer Farms HOA with terms acceptable to the Commission being filed per Staff findings dated April 5, 2022. *Heather Nelson reported on November 2, 2022, that both ponds will be owned and maintained by the City of Champlin so no maintenance agreement is required. The escrow balance will be determined and refunded/invoiced accordingly, and this project removed from the report.*

u. 2022-001 Dayton Field 2nd Addition, Dayton. This is two parcels, 56 acres in size, proposed to be developed into two industrial lots and an outlot. Lot 1 will be an industrial building and lot 2 is proposed for a self-storage facility. Revised plans received May 2 were reviewed and are recommended for contingent approval by Staff. Recommended contingencies for approval are: a) escrow reconciliation and b) long-term operation and maintenance compliance per Commission requirements. At their May 2022 meeting, the Commission approved Staff's findings dated May 3, 2022, including (1) refunding of escrow fee balance; and (2) receipt of an Operations and Maintenance Plan approved by the City. The unused portion of the escrow has been returned to the applicant. *This item will be removed from the report.*

v. 2022-002 Summerwell Townhomes, Maple Grove. This project is for construction of a 26-acre site into a residential townhome community. It will create 13-acres of impervious, all of which is net, new impervious. The project triggers Rules D, E, G, and I and was approved at the Commission's June meeting with three conditions: (1) determination of escrow fee balance; (2) receipt of an Operations and Maintenance Plan approved by the City, and (3) provision of a wetland monitoring plan with four conditions. These conditions are found in Staff findings dated June 2, 2022. The monitoring plan was received in the Commission office on November 3, 2022. *The escrow balance will be determined and refunded/invoiced accordingly, and this project removed from the report.*

w. 2022-003 Fox Briar Ridge East, Maple Grove. The proposed project is for construction of eight townhomes and one single family home with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.81-acres of impervious, 1.68-acres of which is net, new impervious. The project triggers Rules D and E. This project received approval at the Commission's April meeting with two conditions as cited in Staff findings dated April 4, 2022: final escrow determination and provision of a stormwater maintenance agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMPs on the site that will not be operated and maintained by the City. *The escrow balance will be determined and refunded/invoiced accordingly, and this project removed from the report.*

x. 2022-005 Bellwether 7th Addition Corcoran. The project site is a 4-acre parcel within the Bellwether project, known as the Schober property. The proposed project would construct 17 single-family homes and expand existing pond 6N. The project was part of previous Bellwether project reviews and, therefore, only triggers Rule E. The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.

y. 2022-006 Hamel Townhomes, Medina. The proposed project is for construction of 30 townhomes with associated sidewalks, roads, and stormwater infrastructure. The project will create 1.76-acres of impervious, 1.54-acres of which is net, new impervious. The project triggers Rules D and E. The applicant provided the latest resubmittals on July 11, 2022. In their findings dated August 2, 2022, Staff recommends approval with two conditions: receipt of an Operations and Maintenance Agreement acceptable to the City and final escrow determination. The project was approved at the Commission's August meeting. This project will be removed from the report upon receipt of the escrow balance.

z. 2022-007 Weston Commons 2nd Addition, Maple Grove. The proposed project would construct 82 row, townhomes with associated sidewalks, roads, and stormwater infrastructure. The project triggers Rules D, E, and I. With Staff's April 6, 2022, findings, this project was approved at the Commission's April meeting pending return of the surplus escrow fee. The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.

aa 2022-008 Bechtold Farms, Corcoran. This is two parcels that total 117.6 acres proposed to be sub-divided into 12 large, single-family lots. The project will create 6.3-acres impervious areas, 4.5-acres which are net, new impervious. The project triggers Rules D, E, F, G, and I. The project was approved at the April 2022 Commission meeting contingent upon the following conditions: (1) Final escrow determination; (2) Preservation areas meeting the following criteria:(a) A long-term vegetation management plan describing methods of maintaining the conservation area in a natural vegetative condition must be submitted with the stormwater management plans. (i) An analysis of the conservation easement areas should be provided by an arborist or similar knowledgeable expert and include existing quality and quantity of native and non-native species. A plan to preserve, restore and protect native vegetation and control invasive species is needed and must be incorporated into the conservation easement. Newly restored preservation areas must have a

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minimum establishment of >70% native species and <5% invasive species; (b) A recordable conservation easement acceptable to the City and Commission for protecting the excess preservation areas must be provided and include the long-term management plan as part of the document. (c) Because the City will be the easement holder, it must agree with the preservation area and its management, restrictions, and preservation plan; (d) Conservation easement areas must have appropriate monumentation per wetland buffer spacing requirements; (3) An operation and maintenance agreement implementing those conditions that bind current and future owners of the project shall be recorded on the property; (4) Prior to any wetland impacts a wetland replacement plan must be approved by the City of Corcoran (LGU); (5) The buffer vegetation must meet Commission requirements for native vegetation establishment and maintenance. Additionally, the Commission added an advisory recommendation that the City/applicant follow the Commission's Model Livestock Policy. The vegetation management plan for the wetland buffers and preservation areas was approved by Commission staff on May 3, 2022. The City is working on the conservation easements and O & M agreements. Staff provided the Commission's livestock guidelines to the applicant and the City. Staff's April 13, 2022 (updated) recommendations were approved at the Commission's April 13, 2022, meeting.

ab. 2022-009 Dunkirk Lane Development, Plymouth. This project is located in the southwest quadrant of the intersection of Dunkirk Lane and 59th Avenue N. The proposed development includes construction of 21 single-family home units and associated streets, utilities, and stormwater management basin. The Commission review covered Rules D and E and the project received approval at the April meeting per three contingencies outlined in Staff findings dated April 4, 2022: (a) final escrow determination; (b) an updated detail for OCS 105 (Sheet 8 of 21) showing the 2'-wide by 1'-deep notch in the weir modeled in HydroCAD; and (c) Elimination of the redundant 5-foot weir in the HydroCAD model for the pond outlet. It is understood that removal of this weir will not affect hydraulics or results for the 2-, 10- and 100-year storm HydroCAD modeling results but should be updated to be consistent with what is being constructed.

ac. 2022-010 Unity Tool Building Addition, Dayton. This site is located at the northeast intersection of County Road 81 and Troy Lane. The plan proposes to disturb 1.4 acres to expand the existing building by 16,075 SF, reconfiguring the surface pavement and landscape areas, construct a stormwater basin and install site utilities. At their July 2022 meeting the Commission approved Staff's finding and recommendations dated July 2, 2022. The Commission's approval is contingent upon. 1) A Stormwater Maintenance Agreement acceptable to the City and the Commission being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City, and 2) Escrow surplus refunded. The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.

ad. 2022-011 Arrowhead Drive Turn Lane Expansion, Medina. This project consists of a linear project for the City of Medina and a private site expansion for Open Systems International (OSI). The City will be constructing a stormwater BMP on the OSI site to accommodate for rates and water quality from two projects: (1) Arrowhead Drive Turn Lane Expansion and the future (2) Open Systems International, Inc. (OSI) Expansion. The projects are being reviewed as a planned development being treated by the proposed basin. Updated plans were received April 1, 2022, and supplemental updates were received on April 14, 2022. This project received approval at the Commission's May Meeting pending three conditions found in Staff findings dated May 2, 2022: (1) final escrow determination, (2) payment of the additional floodplain alteration review fee, and (3) plans for the OSI, Inc. parking expansion being developed. A Commission application for erosion control (Rule E) will be necessary, assuming the stormwater management is consistent with this approval. An erosion control and grading plan for the OSI, Inc. site should include no more than 1.56 acres of impervious surface and all impervious surfaces shall be directed to the proposed stormwater BMP.

ae. 2022-012 Graco Building 2, Dayton. Graco purchased this property that was the Liberty Industrial Center, approved by the Commission under project 2015-011. Graco is proposing to replat this site and construct a 515,400 SF distribution center. Additionally, mass grading on the remaining portion of Outlot H, and Outlots A and B will occur to accommodate two future buildings, regional ponding, and the construction of French Lake Road West. In total, 74 acres will be graded. The Commission's review covers Rules D and E on the 74 acres being graded for this project. The site plan proposes to encroach into an existing conservation and preservation easement approved by the Commission for project 2015-011. At the July 2022 meeting the Commission reviewed this project and approved site plans for the area west of French Lake Road, contingent upon Staff recommendations found in their findings dated July 6, 2022: 1) final wetland buffer monumentation meeting the Commission's requirements, 2) an operation and maintenance agreement approved by the City that implement conditions that bind current and future owners of the project shall be recorded on this property and 3) the escrow balance must be reconciled. The areas east of French Lake Road were tabled subject to the applicant providing a 60-day extension to MN Statute 15.99 deadline to September 21, 2022. This extension was granted by the applicant. As of this update, no new information has been received for the areas east of French Lake Road. The applicant extended the decision deadline (per 15.99) to November 20, 2022.

af. 2022-013 Dayton Industrial Site, Dayton. This project is a 25.04 acre site located on the north side of CR 81 between Brockton Lane and Dayton Parkway. The applicant is proposing to construct a 334,750 SF industrial building with associated parking for passenger vehicles and tractor trailers. Construction of an extension of Troy Lane Extension from its current cul-de-sac terminus continuing eastward to a future intersection with West French Lake Road is also planned, but will be permitted separately by the City. The proposed project will create 17 acres of new impervious, disturbing 30 acres. The area of the two existing parcels is 25.04 with 0.44 acres of existing impervious. Staff received the signed application March 21, 2022. Staff completed an initial review and requested additional documents from the applicant. They were received March 29, 2022. At their May 11, 2022 meeting the Commission approved this project with eight conditions per Staff's findings dated May 2, 2022.

ag. 2022-014 Aster Mill, Rogers. This project is a 79.4-acre development bound by 129th Avenue North to the north, single family homes to the east and west, and a mix of woods and farmland to the south. The applicant is proposing 169 single-family home lots, 77 townhome lots, and private and public roads. The Commission review covers Rules D, E, G and I. A complete plan was received March 25, 2022, and initial comments were sent to the applicant on April 14, 2022. Updated plans and resubmittals were received April 28, 2022. The project was approved per recommendations found in Staff findings dated May 27, 2022, at the Commission's June meeting: (1) determination of the escrow fee balance; and (2) receipt of an Operations and Maintenance Plan acceptable to the City and the Commission within 90 days of the plat being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City. The applicant has provided an operation and maintenance plan. This project will be removed from the report upon receipt of the escrow balance.

ah. 2022-015 County Road 47 Phase 1 Reconstruction., Plymouth. Hennepin County and the City of Plymouth are proposing to reconstruct approximately four miles of County Road 47 over the next few years. Phase 1 of the project extends from CSAH 101 to approximately 300 feet east of Lawndale Lane. Improvements include reconstruction of CR 47 into a two-lane urban roadway, new trails, utility updates, and stormwater management BMPs. Commission review covered Rules D, E, and H. This project was approved at the Commission's June meeting pending receipt of the escrow fee balance per findings dated June 1, 2022.

ai. 2022-016 Rogers Activity Center. Redevelopment and additions to the Rogers Municipal Complex are proposed at 14160 James Road. The project includes site clearing, demolition of the existing asphalt pavement,

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and grading for a future turf and ice rink facility. The Commission review covered Rules D, E, G and I. At their May 11, 2022 meeting the Commission approved Staff's findings dated May 2, 2022, with five conditions.

aj. 2022-017 City Center Drive, Corcoran. This site is approximately 30-acres, adjacent to and east of CR 116. Corcoran is proposing to provide infrastructure and a regional stormwater system for the ultimate development of this area. This plan proposes to grade and construct City Center Drive, 79th Place, CR 116 turn Lanes, the proposed St. Therese Senior housing facility and a linear city park and trail along CR 116. At the June meeting the Commission approved this project with four conditions 1) Wetland impacts and replacement plans must be approved by the LGU. 2) Final erosion and sediment control plans must be submitted that meet the Commissions requirements. 3) Post construction drawdown rates of >3" per hour must be verified on the filter bench to the NE regional pond and 4) Final escrow balance determination, as cited in Staff findings dated May 31, 2022.

ak. 2022-018 Big Woods, Rogers. This site is approximately 72.1 acres, with 61.0 acres being disturbed. The project will create 207 residential lots and include 23.6 acres of impervious surface after development. The Commission review covers Rules D, E, and I. Per Staff findings dated June 1, 2022, the Commission approved this project at the June meeting conditioned on: (1) reconciliation of the escrow fee balance; (2) receipt of a wetland alteration plan approved by the WCA LGU [the City]; and (3) approval of an operations and maintenance plan approved by the City.

al. 2022-019 Grass Lake Preserve, Dayton. This is two parcels that are 38.45 acres in size, located east of Brockton Road (CR 13) approximately halfway between North and South Diamond Lake Roads. The applicant is proposing 120 twin homes and 6 single family detached homes with corresponding utilities, and streets. Based on Staff findings dated June 2, 2022, the Commission approved this project at their June 2022 meeting with the following conditions. (1) reconciliation of the escrow fee balance; (2) final SWPPP plan submittal prior to grading; (3) receipt of a wetland alteration plan approved by the WCA LGU [the City] and MNDNR {if applicable}; (4) additional sump manholes at CBMHs 205 and 210; and (5) City approval of a long-term operation and maintenance plan on the stormwater facilities. Items 2, 4 and 5 are adequate. Outstanding conditions are the WCA plan and the escrow balance.

am. 2022-020 Skye Meadows Extension, Rogers. This is a development on a 45.3 acre parcel which will disturb 44.1 acres and result in 14.1 acres of impervious surface. The impervious surface includes 129 lots and associated streets. The Commission review covered Rules D, E, G, and I. The project was approved at the Commission's June meeting with the three conditions cited in Staff's findings dated June 1, 2022: (1) final escrow balance reconciliation; (2) approved wetland mitigation plan for the proposed disturbance of Wetlands A and B; and (3) an operation and maintenance plan approved by the City.

an. 2022-022 Cook Lake Highlands, Corcoran/Maple Grove. This is a 53.58-acre development comprised of four existing parcels in both cities. The western parcel in Corcoran totaling 27.3 acres is under consideration for this project review. The adjacent Cook Lake Edgewater, 2021-031 was previously approved in October 2021. The site is located site located along the north side of CR 10 (Bass Lake Road) just west of the CR 101 crossing and southwest of Cook Lake. The applicant is proposing to create a detached residential rental community with 59 units creating 10.4 acres of new impervious areas in Maple Grove, and 8.1 acres of new impervious in Corcoran (a total of 18.5 acres). The applicant reports incorporation of some impervious that is planned for the future acres of new impervious areas in Maple Grove, 8.1 acres of new impervious in Corcoran (totaling 18.5 acres) as well as for the future expansion of CR 10. This phase of the project will disturb 18.6 acres. A stormwater pond with bio-filtration bench and a smaller filtration basin are proposed for the Corcoran portion of the site. At the June meeting Staff

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recommended approval of this project with six conditions. The Commission granted approval of the six conditions cited in Staff findings dated June 1, 2022.

ao. 2022-023 Asguard, Rogers. The proposed redevelopment will consist of a new residential and commercial building containing 71 residential units, retail area with underground parking, a restaurant, and a fuel facility. The project will be located at the intersection of Rogers Drive and 144th Avenue North on a 16.2-acre parcel and will result in 5.52 acres of impervious surface. The Commission review covered Rules D and E. At the July, 2022 meeting the Commission approved Staff findings dated June 27, 2022, with three conditions: (1) fee escrow reconciliation, (2) receipt of an Operations and Maintenance Plan acceptable to the City and the Commission within 90 days of the plat being recorded for all stormwater BMPs on the site that will not be operated and maintained by the City; and (3) provision of a detail for the bio infiltration media and for the southeast bio infiltration basin to confirm 2-foot separation from groundwater table for SE bio infiltration basin or a detail showing an impermeable liner. The applicant has satisfied conditions 2 and 3. This project will be removed from the report upon receipt of the escrow balance.

ap. 2022-024 Bridge No. 27J70 on 101st Avenue, Maple Grove. The City intends to replace the existing double timber box culvert on the South Fork of Rush Creek within the previously permitted Evanswood project (#2021-050). The applicant indicates the existing timber box culvert is not structurally sound. The proposed replacement is a single 9x16' reinforced concrete pipe (RCP) box culvert as the final condition with one foot of inside substrate to support habitat connectivity. Delays to sourcing the RCP Box culvert require an interim crossing to support construction in the area. This permit also covers the interim installation. The project disturbs 1.33 acres with no existing impervious and adds 0.014 acres of new impervious. The interim crossing will consist of three buried round 48" CMPs and a temporary roadway as overflow. The planned installation of the temporary crossing is scheduled for June 2022; the contractor estimates the final replacement should be installed in October 2022. Use of the interim crossing will be limited to contractors prior to the final install of the 16'x9' box culvert. At their June 2022 meeting the Commissioners approved Staff's recommendations of approval in their findings dated May 27, 2022, and revised May 31, 2022, (1) reconciliation of escrow fees; (2) applicant must meet all DNR Requirements for both interim and final proposed condition and share the selected measure for dewatering and diversion with Commission staff; (3) bring all culvert inverts and outlets and flow line elevations on drawings into alignment with ONE set of numbers which align with the model prior to construction, submit revised drawings to the DNR and the Commission prior to construction; and (4) the applicant must meet all City requirements.

aq. 2022-025 Harvest View, Rogers. A parcel that is 47.0-acres that is bounded to the north by existing single family development, to the east by the single family development Sky Meadows (Phase 2), to the south by Territorial Road (C.S.A.H. No. 116), and to the west by the single family development Big Woods in Rogers. Application was received on May 9, 2022, and the most recent resubmittals were received on June 30. Staff findings dated September 6, 2022, were presented at the Commission's September meeting with a recommendation of approval conditioned on receipt of the escrow fee balance.

ar. 2022-026 Rogers Archway Building, Rogers. The project site is located between 129th Avenue North and Territorial Road, west of Main Street and east of Elm Parkway. The applicant reconfigured their construction activities in order to maintain the volume of the existing pond, thereby not triggering the Commission's rules. Upon receipt of as-built plans confirming the reconfiguration, this project will be closed out pending reconciliation of the escrow fee.

as. 2022-027 Edison at Maple Grove Apartments, Maple Grove. The project is located on Garland Avenue near the intersection of I-94 and Maple Grove Parkway. The project consists of development of a

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couple of multi-story apartment buildings along with amenities and associated streets and utility infrastructure. The application was received May 16, 2022, and the latest updates for the project were provided to Staff on July 6, 2022. At their July meeting the Commission approved Staff's findings dated July 6, 2022, with the following conditions: 1.) Escrow fee reconciliation, 2) The applicant shall provide a Stormwater Maintenance Agreement acceptable to the City and the Commission within 90 days after the plat is recorded for all stormwater BMP's on the site that will not be operated and maintained by the city, 3.) Add a phosphorous sorbing amendment to the biofiltration media to meet water quality standards and results. The applicant has satisfied conditions 2 and 3. This project will be removed from the report upon receipt of the escrow balance.

at. 2022-028 Elsie Stephens Park, Dayton. This is existing park property (~20 acres) located about a mile north of the junction of County Roads 144 (N. Diamond Lake Road) and 12 (Dayton River Road). The project proposes to construct two entrance roads off CR 12, 1,300 feet of park roadways with a parking area and loop road, and a trail system to connect existing and future trails. Site revisions received July 5, 2022, were reviewed by the Commission at their July 2022 meeting. Staff recommended approval in their findings dated July 6, 2022, contingent upon: 1) pre- and post-construction soil analysis on each infiltration basin to determine that infiltration rates meet or exceed design assumptions; 2) erosion and sediment control meeting the Commission's requirements and approved by Staff; and 3) escrow fee reconciliation.

au. 2022-029 Hayden Hills Park, Dayton. This is an existing 6.5-acre vacant park property located in the Hayden Hills Development about one-half mile south of Dayton City Hall near Deerwood Lane at 132nd Avenue. The City proposes to grade and construct a baseball field, open play areas, ice skating area, a basketball court, pickleball court, playground, putting green and connection trails into the existing trail system. This site's stormwater (Rule D) was designed into the Hayden Hills development approved by the Commission under project 2018-008. Staff reviewed this plan for Rule E only. Site plans conformed to Rule E and were administratively approved in Staff findings dated May 27, 2022. The surplus escrow fee will be refunded and this item removed from the report.

av. 2022-030 Garages Too Corcoran. The project proposes building and site improvements for a self-storage facility just north of Highway 55 near Rolling Hills Road. The site is within the physical boundary of the Pioneer-Sarah Creek watershed, but is in Corcoran, which is within the legal boundary of the Elm Creek watershed. At their August meeting the Commission approved Staff findings dated August 2, 2022, contingent upon (1) an operation and maintenance agreement, recorded on this property and approved by the City, that implement conditions that bind current and future owners of the project, (2) wetland impacts/exemption request must meet the LGU (Corcoran) requirements; and (3) the escrow balance being reconciled. In September, Staff requested updates from the applicant as they progress. *This item received approval from Corcoran in October. The WCA and O & M information are still outstanding as of this update.*

aw. 2022-031 Corcoran II Substation. The project site is located on 2.87 acres at the northeast intersection of Larkin Road and CR 116. It is a 38.91-acre parcel that is proposed to be subdivided into one lot and two outlots. Block 1, Lot 1 will be the parcel where Wright Hennepin Cooperative Electric Association will place their substation. The remaining areas will be utilized for future development and for ROW along CR 116. At their July 2022 meeting the Commission approved Staff's July 5, 2022, recommendations with three conditions. 1) a stormwater operation and maintenance agreement acceptable to Corcoran and the Commission must be recorded by the landowner on this property; 2) the 48-hour drawdown (4,704 CF) on the stormwater basin must be verified post-construction; and 3) escrow fee reconciliation.

ax. 2022-032 Elm Creek Stream Restoration Phase 5, Champlin. The project is located within the Elm

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Creek Park Reserve, downstream of Hayden Lake, and upstream of Elm Creek Crossing. The proposed project scope will include grading of the project area for residential lots, construction of various residential streets and sidewalks and supporting underground utilities, driveways, and stormwater management. The Commission approved Staff findings dated July 5, 2022, at their July meeting pending refund of the escrow surplus. The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.

ay. 2022-033 Pet Suites, Maple Grove. The project site is located on a vacant lot just north of the County Road 30 and Upland Lane N intersection. The proposed project will include the construction of a building and parking lot along with necessary utilities and stormwater management for a canine care facility. The project triggers Rules D and E. This project was approved at the Commission's September meeting with two conditions: 1) receipt of final application escrow fee balance and 2) an operation and maintenance plan approved by the City.

az. 2022-034 CSAH 101 Improvements, Maple Grove. The project is located on CSAH 101 between Walnut Grove Way/73rd Avenue and approximately 83rd Avenue. The project consists of a reconstruction of CSAH 101 to include turn lanes, conversion of rural to urban section, intersection improvements, and addition of a multi-use trail. The project triggers Rules D and E. In their findings dated August 2, 2022, Staff recommended approval pending receipt of the escrow fee balance. The project was approved at the August meeting with that condition.

ba. 2022-035 Rush Hollow, Maple Grove. The project is located on 161.5 acres and will result in 49.01 acres of impervious surface. The project triggers Rules D, E and I. Staff is currently reviewing the latest re-submittals, received on September 5. *Project review findings and recommendations dated November 1, 2022, are provided in this month's packet. Staff recommends approval contingent upon 1) final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met, 2) an operation and maintenance plan that is approved by the City of Medina, 3) the addition of EOF's to the grading plan for basins East Filtration and the North Retention Basin. The low floor elevations must be at least one foot above the EOF for the stormwater pond. Secondary outlet devices potentially modeled as EOFs are reported as 987.27 for the North Retention Basin and 993.0, the elevation of the roadway, for the East Filtration Basin, 4) Jurisdictional determination for LGU WCA replacement or exemption is necessary. LGU and WCA approval is required prior to any wetland impacts if required by LGU, and 5) the addition of approved wetland monument signs to the plan set.*

bb. 2022-036 West French Lake Road Improvements, Dayton. This is a one mile stretch of W. French Lake Road between the Cubes at French Lake and the Graco Building 2 developments proposed to be reconstructed from a gravel rural road into an urban road section. The work will disturb 12 acres and create 2.5 acres of new impervious areas. The Commission approved Staff's findings dated September 7, 2022, conditioned on the following items: 1) The escrow balance must be reconciled. 2) Individual discharge points where rates are increased throughout the corridor must be approved by the city engineer and 3) The disturbed areas east of the roadway/trail shall have a vegetation maintenance plan that ensures minimum native vegetation establishment over a period of three years. Items 2 and 3 have been approved by the City. The unused portion of the escrow has been returned to the applicant. This item will be removed from the report.

bc. 2022-037 CSAH 13 CR 203 Culvert Replacement, Rogers. This project replaces six culverts along CSAH 13 and CR 203. The project triggers Rule E. All culvert replacements are in-kind. No changes are proposed to inverts, pipe size, or material. In Staff findings dated August 2, 2022, this project was approved administratively, pending receipt of the outstanding escrow fee.

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bd. 2022-038 Tavera (North Phase), Corcoran. Lennar Homes is proposing to develop this site into a 244-unit housing development, with 110 single family detached lots and 134 attached townhouse units. It is the second phase of the overall larger 548-unit Tavera housing development. The total site area is 272 acres. Phase 2 will encompass approximately 175 acres, disturb 110 acres, and create 38.6 acres of new impervious area. The Commission approved the project at their August 2022 meeting contingent upon meeting the conditions cited in Staff's August 3, 2022, findings: (1) operation and maintenance plans and agreement being provided to the Commission for their review and approval. These plans must include the irrigation system. (2) irrigation system pump and augmentation information being provided and approved by Staff and (3) the escrow balance being reconciled.

be. 2022-039 Garland Commons, Maple Grove. This project consists of a multi-family building with associated parking, landscaping, utility and stormwater best management practices. It will disturb 4.8 acres of a 6.2 acre site and result in 1.8 acres of new impervious surface. The project triggers Rules D, E, and I. Staff's review and findings dated *September 19, 2022, were approved at the Commission's October meeting conditioned on reconciliation of the escrow fee balance.*

bf. 2022-040 Karineimi Meadows, Corcoran. This is a 125-acre parcel in the southeast quadrant of the CR 10 and 19 intersections proposed to be subdivided into 10 large single family residential lots. The project will consist of constructing Chaparral Lane south of CR 10 with its associated drainage and storm water basins into the site. Lot grading improvements will be customized and occur at the time the homes are built. Staff provided preliminary comments to the applicant on August 17. Staff extended the 15.99 deadline to December 3, 2022.

bg. 2022-041 Elm Creek Swim Pond Culvert, Maple Grove. The project is located within the Elm Creek Park Reserve, to the east of Mud Lake, and just north of the Elm Creek Swim Pond. The project includes the replacement of an existing wooden bridge with a culvert crossing which will provide an improved crossing for Park District maintenance access. Staff findings dated September 6, 2022, were approved at the Commission's September meeting with a recommendation of approval pending receipt of the escrow fee balance.

bh. 2022-042 Walcott Glen, Corcoran. This is a 40-acre parcel located in the northwest quadrant of the intersection of Hackamore Road and CR 101 (Brockton Lane). The site will be developed into a residential area with 10.8 acres of new impervious area including homes, driveways, roads, and sidewalks, as well as a playground area. *Staff's findings dated October 5, 2022, were reviewed and approved at the October meeting conditioned upon 1) The escrow balance being rectified to the satisfaction of the Commission Administrator. 2) Notice of wetland replacement plan approval being provided to the Commission. Prior to grading the wetland, a replacement plan must be approved by the LGU. 3) The applicant entering into a stormwater maintenance agreement with the City of Corcoran. The City's template stormwater maintenance agreement satisfies the requirements of the Commission, and 4) the City of Corcoran must approve the final emergency overflow design for wetland H4. Final design must be reviewed and approved by Commission staff. All contingency items have been met except the escrow balance.*

bi. 2022-043 Meander Park and Boardwalk, Medina. This project is a proposed commercial planned unit development located on the north side of Highway 55, 900 feet east of Arrowhead drive on Lake Medina. Wetland surround the 18-acre site on the west and south, leaving approximately 7 acres of developable land. The project will disturb 6.3 acres of the site and result in a 4.0 acre increase in imper-

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vious surface. The project triggers Rules D, E, F, G and I. *Project review findings and recommendations dated November 2, 2022, are provided in this month's packet. Staff recommends approval contingent upon 1) final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met, 2) an operation and maintenance plan that is approved by the City of Medina, 3) addition of EOF's to the grading plan for basins East Filtration and the North Retention Basin. The low floor elevations must be at least one foot above the EOF for the stormwater pond. Secondary outlet devices potentially modeled as EOFs are reported as 987.27 for the North Retention Basin and 993.0, the elevation of the roadway, for the East Filtration Basin, 4) Jurisdictional determination for LGU WCA replacement or exemption is necessary. LGU and WCA approval is required prior to any wetland impacts if required by LGU, and 5) addition of approved wetland monument signs to the plan set.*

bj. 2022-044 Trail Haven Road Bridge L9384 Replacement, Corcoran. This is on the North Fork of Rush Creek at Trail Haven Road approximately ½ mile south of CR 117. Corcoran is proposing to replace the existing 52' long 90" x 139" CMP arch culvert with 10' wide by 6' high concrete box culvert on Trail Haven Road. Last month, the Commission approved findings dated October 12, 2022, contingent upon, 1) *The escrow balance must be rectified to the satisfaction of the Commission Administrator. 2) Provide the following for documentation, a) Current photographs of the existing channel to approximately 250 feet downstream of the proposed culvert invert, b) Detail of the proposed riprap design below the culvert, c) Provide MN DNR and WCA permits to Commission technical staff and d) General concurrence to assist private landowners downstream of this project if streambank erosion occurs as a result of this culvert replacement project. No new information has been received as of this update.*

bk. 2022-045 Corcoran Water Treatment Plant, Corcoran. This is a 3.25-acre parcel on the east side of CR 116, one-half mile north of CR 30. The project will consist of an access off CR 116, the Water Treatment Plant, a municipal well, and a wet detention stormwater pond with a bioretention bench for stormwater management, rate control and water quality. Initial review and comments were provided to the City and their consultant October 23. No updates have been received since that time. No action is required at this time.

bl. 2022-046 CSAH 12 Culvert and Guardrail Replacement and Ravine Stabilization, Dayton. The project area runs along the CSAH 12 ROW from 2500' northwest of Lawndale Lane and continues approximately 3.1 miles southwest to near Pioneer Parkway. The project will consist of mill and overlay work on an existing section of CR12. Construction plans show the removal of 9-11" of bituminous pavement and 12" of aggregate base and replacing it with recycled or new materials. Additionally, six sections of this corridor have failing slopes that threaten the road embankment. Culverts will be replaced where needed and six (6) gully areas will be stabilized between the road and the Mississippi River. Project review, findings and recommendations dated November 1, 2022, are provided in this month's packet. Staff recommends approval contingent upon 1) final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met and 2) Jurisdictional determination for LGU WCA replacement or exemption is necessary. LGU and WCA approval is required prior to any wetland impacts if required by the LGU.

FINAL RECORDINGS OR OTHER DOCUMENTATION/FOLLOW-UP ARE DUE ON THE FOLLOWING PROJECTS:

ca. 2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. Site plans received July 1, 2014 met the requirements of the Commission with the exception of the nutrient control. The Commission approved the site plan contingent upon the City deferring 4.6 lbs. of phosphorus for treatment in future ponding opportunities as the easterly corridor of Rogers Drive develops. 2.3 lbs. will be accounted for in the Kinghorn Spec. Building site plan, with 2.3 lbs. still outstanding. This item will remain on the report until the total deferral is accounted for.

cb. 2015-030 Kiddiegarten Child Care Center, Maple Grove. Approved December 9, 2015. If the City does not take over the operation and maintenance of the underground system and the sump catch basins, an O&M agreement for the underground trench/pond system must be approved by the Commission and the City and recorded with the title. On February 5, 2019, Derek Asche contacted the owner requesting a copy of the recorded maintenance agreement. On October 21, 2022, Asche reported there is no update for this project.

cc. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. In December 2016, the Commission approved Staff's recommendations on this wetland replacement plan. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Annual reports were submitted to the US Army Corps of Engineers (USACE) in February 2019, February 2020, and March 2021. As of March 2021, wetlands and buffers are looking good but will need continued vegetation management in 2021 to get rid of invasive species (mostly cattail). Hydrology is good in both the restoration and creation areas. Cattail and Reed canary grass reemerged during the 2021 growing season and will likely need another year of aggressive maintenance in 2022. The 2021 monitoring report will be submitted to the USACE in March 2022 with recommendations for maintenance.

cd. 2017-014 Laurel Creek, Rogers. In June 2017, the Commission approved this project with four conditions. All contingency items have been provided with the exception of the O&M agreement which is being negotiated as to whether the City or the HOA will be responsible for the operation and maintenance of the stormwater management facility. On August 31, 2017, Andrew Simmons responded that the O&M agreement is still being negotiated.

ce. 2018-046 Graco Expansion, Rogers. This project is the expansion of an existing building. The site is located in an area that has regional ponding provided for rate control purposes, but needs to account for water quality and abstraction requirements on-site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 2018 meeting. Conditions of approval were to (1) submit a SWPPP plan meeting requirements, (2) clarify maintenance responsibilities for the iron enhanced sand filter, and (3) a letter from the City of Rogers stating their intentions to provide the water quality deficit in an upcoming project. Staff confirmed several minor plan revisions remain in conformance with the original approval. This item will remain on the Staff report until such time as the water quality deficit has been made up.

cf. 2019-021 Brenly Meadows, Rogers. This is a 38-unit townhome project proposed on 6.9 acres north of 129th Avenue about one-third mile west of Main Street. It triggered the Commission's review for Rules D, and E. This item was approved by the Commission at their August 2019 meeting, contingent upon O & M plan requirements for the stormwater pond and irrigation system.

cg. 2019-026 Interstate Power Systems, Rogers. This is a 10-acre site to construct a 1-acre building for a mechanical shop and 6 acres of parking and driveways along County Road 81. It triggered review of Rule D, E, G, and I. This item was approved by the Commission at their November 2019 meeting, contingent upon documentation of existing conditions pollutant loading and a recorded O&M plan for onsite BMPs. The applicant provided the pollutant loading data in November 2019. The Commission is still awaiting the O&M plan.

ch. 2020-009 Stetler Barn, Medina. This site disturbs approximately 3.5 acres and must meet Commission Rules D, E, and I. Because of the limited available space for pasture, paddocks and land application of manure, understanding how these components will be managed was also an important part of the review. A complete plan was received on April 22, 2020. At their May 13, 2020, meeting the Commission approved this project contingent upon: 1) the land-

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owner continuing to work with the U of M Extension Office and Hennepin County Rural Conservationist to finalize composting, pasture and paddock management plans and 2) a long-term pond/basin operation and maintenance plan and agreement with the City of Medina being approved by the City and the Commission. The agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

ci. 2020-017 Meadow View Townhomes, Medina. This is a 22-acre site located south of Meander Road and north of Highway 55. Lennar Homes is proposing to build 125 townhomes with their necessary infrastructure on this site. A complete application was received May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review was for conformance to Rules D, E, F, G, and I. At their October meeting, the Commission approved Staff's finding dated September 30, 2020, contingent upon (1) The mean (average) depth on the west wet detention pond must be 4.0' or deeper; (2) Buffer strip monumentation and vegetation maintenance plans must conform to the Commission's requirements; (3) An operation and maintenance agreement of the stormwater ponds and irrigation system must be approved by the City and the Commission. The agreement must be recorded on the property title with a copy of the recorded document provided to the Commission; and (4) Erosion and sediment controls must conform to Commission requirements. Since the approval, the City of Medina has requested the applicant provide abstraction by irrigation only, thus eliminating one filter basin. Staff reviewed the changes and found the updates to be compliant with the Commission's original approvals for stormwater management and administratively approved the plans contingent upon item (3) above and added the condition that design information on the irrigation pump and augmentation water source must be provided within six months of this approval. On November 2, 2021, Dusty Finke provided the Commission with a copy of the recorded O&M agreement.

cj. 2020-032 Enclave Rogers – Commerce Boulevard., Rogers. This project would create an apartment complex on a 3.3-acre site. The existing condition is undeveloped. The project will disturb the entire site and create 2.15 acres of impervious surface. The applicant is proposing an iron enhanced sand filter to meet Total Phosphorus removal requirements. The site is within two of the three outlots created as part of the adjacent former Lowe's development. The application was reviewed for Rules D and E. Staff granted administrative approval for grading contingent on applicant accepting risk for changes required for final approval and on approval from the City for grading activities. In their findings dated December 2, 2020, Staff recommended approval with those conditions, as well as submission of an O&M agreement for stormwater features and with minor updates to the hydrology report and the SWPPP. The Commission approved Staff recommendations at their December 9, 2020, meeting.

ck. 2020-033 Weston Woods, Medina. This project would create 150 residential units on a 135-acre undeveloped site. The project will disturb 49.2 acres and create 17.49 acres of impervious area. The Commission approved this project at their March 2021 meeting with four contingencies: a) Wetland replacement plans must be approved by the City of Medina (LGU), MN DNR and USACE prior to impacts, b) Provide quantification of the change in flood storage capacity for the one-percent annual chance flood event due to the proposed project, c) Provide documentation that changes in flood elevation and loss of floodplain storage have been avoided, minimized, and/or mitigated to the extent practicable. Demonstrate that changes in flood elevation will not cause high water or aggravate flooding on other land and, d) An O&M agreement for stormwater facilities, including irrigation pumping system components and augmentation wells system, must be approved by the City and the Commission and recorded within 90-days after final plat approval on the title to this property. A copy of the recorded agreements must be provided to the Commission.

cl. 2020-036 Balsam Pointe, Dayton. This project will create 98 residential units on a 10-acre site near the intersection of Diamond Lake Road South and Dayton Road. The existing condition is undeveloped. The project will disturb the entire site and create 5.3 acres of new impervious. The application was reviewed for Rules D and E. The Commission approved Staff's recommendations at their January 13, 2021, meeting contingent upon an O&M agreement meeting the Commission's standards being recorded on the land title.

On August 23, 2022, Jason Quisberg reported that everything on this project has been coordinated/resolved, including, he believes, securement of stormwater O&M agreement (he will verify, and coordinate as needed). Construction is significantly complete; buildout is underway. This item will be removed from the report.

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cm. 2021-007 Birchwood 2nd Addition, Rogers. This project is east of CR13 (Brockton Lane) approximately 1/2 mile south of the intersection of CR 144 (141st Avenue North) and CR13. The applicant is proposing to develop the site into 30 single-family residential lots. The site drains south and east into Grass Lake. This work will disturb 10 acres and create 4.0 acres of new impervious area. At their April 2021 meeting the Commission approved this project contingent upon the final SWPPP being submitted prior to grading and receipt of any outstanding project review fees.

cn. 2021-016 Territorial Lofts, Rogers. This is a 5.39-acre site on Territorial Road, adjacent to the Laurel Creek development. The project would construct a 75-unit apartment building, underground parking, a detached garage, maintenance facilities, and access road, creating 2.397 acres of total impervious (1.86 acres net new impervious) and disturbing 5.2 acres. The existing site is two single-family residential homes. The site proposes to use stormwater reuse with an irrigation system to meet abstraction requirements due to low infiltration capacity soils. The project was reviewed for Rules D, E, G, and I. The project was approved by the Commission at its July 2021 meeting contingent upon receipt of outstanding project review fees and a stormwater maintenance agreement being put in place between the owner and the city with terms acceptable to the Commission. *The outstanding fees have been received.*

co. 2021-020 Crew Carwash, Maple Grove. This project would reconstruct an existing bank building and parking lot on a 1.80-acre parcel into a carwash. The site is located southwest of the intersection of Weaver Lake Road and Elm Creek Boulevard with access from Grove Drive. The disturbance is 1.52 acres, the existing impervious is 1.07 acres, and the proposed impervious is 1.17 acres. Runoff from this site flows into a regional pond on Arbor Lakes Parkway, which ultimately discharges to Rice Lake. The City has stated that the regional pond meets rate control and water quality treatment for the site. The applicant is proposing to use soil amendments to meet the Commission's volume rules. The Commission approved the project at its June meeting contingent on a maintenance agreement being filed with the City with terms agreeable to the Commission. The surplus escrow will be returned to the applicant. On October 21, 2022, Derek Asche reported there is no update for this project.

cp. 2021-021 Territorial Triangle, Dayton. This site is in the easterly triangle Territorial Road and CR 81 intersection near the border of Dayton and Maple Grove. The applicant is proposing to subdivide the 14-acre parcel into 30 rowhome units and 56 townhome units. Two ponding basins are proposed for stormwater management. This work will disturb approximately 10 acres and create 5.7 acres of new impervious areas. The Commission approved Staff's recommendations cited in their findings dated July 22, 2021, contingent upon (a) final application escrow fee balance determination and (b) provision of a Stormwater Maintenance Agreement for the irrigation system that is acceptable to the city and the Commission within 90 days after the plat is recorded. The surplus escrow will be returned to the applicant.

cq. 2021-023 Maple Grove MOB, Maple Grove. This project would construct a Medical Office Building and associated parking on an undeveloped parcel. The site is located on the southeastern corner of the intersection of 105th Avenue North and Niagara Lane, immediately north of the Highway 610 and Maple Grove Parkway interchange. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on: receipt of deficit fee escrows and an operation and maintenance agreement with the City per Staff findings dated September 2, 2021. The O&M Agreement has been received.

cr. 2021-024 Riverwalk, Dayton. This site is south of CR 12 (Dayton River Road) and west of River Hills Parkway approximately 1/4 mile north of CR 144 (Diamond Lake Road). The applicant proposes to construct a new single family residential subdivision with 242 lots including one amenity lot and a city well site. Site development will include removal of an existing home site, grading 94 acres, and installation of municipal sewer and water, streets, and stormwater systems. The Commission approved Staff's recommendations in their findings dated August 11, 2021, at their August 2021 meeting contingent upon four conditions. The surplus escrow will be returned to the applicant.

On August 23, 2022, Jason Quisberg reported that everything on this project should be already coordinated/resolved regarding design; construction is underway. No stormwater O&M is needed – all public, city-maintained ponds. This item will be removed from the report.

cs. 2021-027 Xcel Energy Elm Creek Substation, Maple Grove. Xcel Energy is proposing to expand an existing

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RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

Italics indicates new information

indicates enclosure

electrical substation between Maple Grove Parkway and Fernbrook Lane near the Highway 610 expansion. The expansion will occur within the existing 17.09-acre parcel. The project was reviewed for Rules D and E. The Commission approved this project at its October 2021 meeting contingent on Staff findings dated September 24, 2021: receipt of deficit fee escrows and an O&M agreement with the City. The O&M agreement was received in the Commission office on July 28, 2022.

ct. 2021-035 Mister Carwash, Rogers. The project includes redevelopment of an existing, vacant Staff restaurant building, parking lot, and drive-through into a new carwash facility at 21421 South Diamond Lake Road. The redevelopment is anticipated to decrease the impervious area by approximately 0.3 acres at the project site and add an underground filtration basin with underdrain. The project was reviewed for Rules D and E. The Commission approved this project at its December 2021 meeting with four contingencies: 1) receipt of deficit escrows, 2) a Stormwater Maintenance Agreement, including irrigation system, being entered with the City, 3) A wetland replacement plan approved by the LGU and the TEP, and 4) the buffer plan contingent upon approval of the wetland replacement plan, per Staff findings dated August 31, 2021.

cu. 2021-036 D&D Service, Corcoran. The D&D Service development is proposed at the southeast corner of the intersection of County Roads 10 and 19 on a 16.54-acre parcel. The proposed project will include a large warehouse and office buildings along with parking and associated facilities. The existing site is a single farmhouse and surrounding agricultural land. The project was reviewed for Rules D, E, G, and I. Findings updated October 5, 2021, wherein Staff recommended contingent approval with five conditions were approved at the October meeting. *On July 26, 2022, Kevin Mattson confirmed that the O&M agreement has been received and recorded.*

cv. 2021-040 NAPA Auto Store, Corcoran. This project is located at the northwest intersection of CR 116 and 75th Avenue on the old Liquor Store parcel. The applicant proposes to demolish the current building and adjoining parking areas and construct a 12,800 SF NAPA Auto building, parking lot and associated utilities. An extra 3,600 feet of building area is proposed for future expansion and is included within the stormwater management design for this site. The Commission approved this project at their October 2021 meeting contingent upon return of surplus project escrows and a stormwater maintenance agreement being put in place between the owner and the City per Commission requirements. *On July 26, 2022, Kevin Mattson confirmed that the O&M agreement has been received and recorded.*

cw. 2021-041 Carlson Ridge, Plymouth. This is an existing 4.82-acre residential lot located between Vagabond and Troy Lanes just north of 56th Avenue North. The property will be subdivided into 13 single-family lots. The existing residence will remain, but portions of the driveway and an outbuilding will be demolished. The Commission approved this project at their October 2021 meeting contingent upon three conditions outlined in Staff findings dated October 5, 2021: (1) final escrow balance determination when final unconditional approval is granted, (2) wetland impacts cannot occur until appropriate LGU and WCA approvals, and (3) long term operation and maintenance of the stormwater system is determined. The City of Plymouth has agreed to the long-term operation and maintenance of the filter basin. *The Commission received the Wetland Notice of Decision on October 25, 2022. The escrow reconciliation is the only outstanding condition.*

HENNEPIN COUNTY

MINNESOTA

DATE: November 3, 2022

TO: Elm Creek Watershed Management Commission (ECWMC)

FROM: Kevin Ellis, and Kris Guentzel; Hennepin County Department of Environment and Energy

RE: November ECWMC Updates

Project / Program Updates

Lake Jubert Agricultural BMPs

Construction has begun on five grassed waterways. Grading has been completed and contractor is currently identifying locations of tile. Construction should be completed within the next three weeks.

13861 129th Ave N., Dayton

Roof of manure bunker is currently being constructed by landowner. Full structure will be completed before the end of calendar year 2022.

9945 Sundance Road

Construction has begun on livestock waterer and barn gutters. Hennepin County Staff are currently working to find an appropriate site for the manure bunker. Projects will be completed by the end of calendar year 2022.

Diamond Hill Stables

Hennepin County will assist landowners with installation of gutters on barn/stables that will help curb erosion in high traffic alleyways surrounding the building. Landowners are working with NRCS to apply for EQIP funding for pasture management and fencing upgrades.

10000 Ebert Road

Landowner has signed state cost-share contract to restore wetlands and prairie areas. Area has been fall-seeded with native species. Hennepin County staff are working on engineering and permit applications for potential project installs in 2023. Full plan sets will be finalized over winter 2022.

Hennepin County Environment and Energy Programming

Become a Minnesota Water Steward

Hennepin County is recruiting residents to become [Minnesota Water Stewards](#) in 2023. Minnesota Water Stewards is a program that certifies and supports community leaders to prevent water pollution and educate community members to protect our waterways.

Learn what it takes to become a Water Steward by attending an information session. Information sessions are virtual and will run 45 minutes to an hour. [Register for an upcoming session](#):

Tuesday, November 1 at 5 p.m.

Tuesday, November 15 at noon

Tuesday, November 29 at 5 p.m.

You can submit an application after you attend an information session. Applications are due November 30.



For more information, contact Alex Van Loh at avanloh@freshwater.org.

Provide feedback on the Natural Resources Interactive Map

Hennepin County hosts the [Natural Resource Interactive Map](#) to make imagery, land cover information and classifications, and water resource data available to the public. The map allows users to review details related to specific parcels, print and share maps, and draw and measure.

The county is gathering feedback to inform map improvements. [Complete a survey](#) to provide input on the presentation of natural resource layers and suggest ways to improve user experience. The survey takes about three minutes to complete and will be open until November 30.

Apply for a Good Steward Grant

Applications for Good Steward Grants are being accepted through November 15, 2022. These grants typically support smaller, community-based or single applicant projects, such as constructing rain gardens, stabilizing stream banks, restoring native vegetation, installing vegetated filter strips, or implementing other best management projects. The typical funding amount is \$5,000 to \$15,000.

See the [Good Steward Grant Guidelines \(PDF\)](#) for more information. Application materials are posted on the [Hennepin County Supplier Portal](#), and all applications must be submitted through the Supplier Portal.

Attend a Good Steward Grant workshop in October

Two optional online workshops are being held for potential applicants to learn more about the program, application requirements, and how to submit their application using the Supplier Portal. [RSVP to get the meeting invite](#):

- Thursday, October 6 from 11 a.m. to 12:30 p.m.
- Tuesday, October 11 from 4 to 5:30 p.m.

For those unable to attend, a recording of these workshops will be posted to the [Natural Resource Grants website](#).

To: Elm Creek WMO Commissioners
Elm Creek TAC

From: Diane Spector

Date: November 3, 2022

Subject: Grant Update

**Recommended
Commission Action**

Discuss. Approve cost share application.

This is an update on the status of some grant-funded projects we've previously discussed:

16630/16750 Dayton River Road

At the October meeting, the TAC and Commission discussed an issue with erosion in a channel between the homes at 16630/16750 Dayton River Road that is expected to be exacerbated when a culvert under CSAH 12 is replaced as part of the upcoming County project. Erosion is contributing excess sediment to the Mississippi River. At the October meeting the TAC and Commission discussed sharing the cost of stabilizing this channel.

Good Steward Grants. This is a Hennepin County grant program that county staff recommended as a good source for a county contribution to the cost of channel stabilization. The City of Dayton will prepare and submit a grant application. Grants are due November 15.

Commission Cost Share. The City of Dayton is in the process of completing an updated cost estimate and Cost Share Program application. A draft is attached for your review; we will have an updated cost estimated by the November 9, 2022 meeting. Staff recommends approval of the Cost Share application.

Watershed Based Implementation Funding (WBIF)

Hennepin County has submitted a workplan to BWSR for the shared Education and Outreach coordinator. The Commission is now able to submit an application and work plan to BWSR for the balance of the grant. As previously discussed, that work plan will include \$175,000 for implementation of BMPs identified in the Rush Creek and Diamond Creek subwatershed assessments and \$92,774 for priority assessments. We will include as example assessments the proposed South Fork Rush Creek SWA, the Diamond Lake outlet channel, and the Rush Creek meandering near Stieg Woods as potential priorities. We are still developing options and cost estimates for each of those for further Commission consideration.

elm creek Watershed Management Commission

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ELM CREEK WATERSHED MANAGEMENT COMMISSION Partnership Cost-Share Program Guidelines on Municipal Property

The Elm Creek Watershed Management Commission will from time to time make funds available to its member cities to help fund the cost of Best Management Practices (BMPs) projects that cost less than \$100,000. The following are the guidelines for the award of cost-share grants from this program:

1. Projects must be for water quality improvement and must be for improvement above and beyond what would be required to meet Commission rules. Only the cost of “upsizing” a BMP above and beyond is eligible.
2. Priority is given to projects identified in a subwatershed assessment or TMDL.
3. Projects should cost less than \$100,000; projects costing more than \$100,000 should be submitted to the CIP. Projects cannot receive funding from both the CIP and the Cost-Share Program.
4. Commission will share in funding projects on a 1:1 basis.
5. The cost of land acquisition may be included as City match.
6. The minimum cost-share per project is \$10,000 and the maximum is \$50,000.
7. Projects must be reviewed by the Technical Advisory Committee (TAC) and recommended to the Commissions for funding.
8. The Commissions will call for projects in December of each year, with potential projects reviewed by the TAC at its end of January meeting.
9. Cost-share is on a reimbursable basis following completion of project.
10. The TAC has discretion on a case-by-case basis to consider and recommend to the Commissions projects that do not meet the letter of these guidelines, including projects submitted mid-year.
11. Unallocated funds will carry over from year to year and be maintained in a designated fund account.
12. The standard Commission/Member Cooperative Agreement will be executed prior to project construction.

Adopted August 11, 2021)

**Elm Creek Watershed Management Commission
City Cost-Share Program Guidelines**

City:	Dayton
Contact Name:	Jason Quisberg
Contact Phone:	763 252-6873
Contact Email:	jason.quisberg@stantec.com
Project Name:	Dayton River Road Channel Stabilization
Year of Construction:	2023
Total Project Cost:	`\$50,000 (These are still being updated but are ballpark)
Amount Requested:	~\$25,000 (There will be an updated request at the Nov meeting)
Project Location:	Between 16630 and 16750 Dayton River Road

1. Describe the BMP(s) proposed in your project. Describe the current condition and how the BMP(s) will reduce pollutant loading and/or runoff volume. Note the estimated annual load and volume reduction by parameter, if known, and how they were calculated. Attach figures showing project location and BMP details including drainage area to the BMP(s).

Runoff from an area south of Dayton River Road is conveyed to the north side by a culvert under the roadway, which is CSAH 12. The culvert discharges into a channel that flows north between two properties to the Mississippi River. Hennepin County plans a 2023 project to replace various culverts along CSAH 12. This project involves widening the road, removing the guard rails, and extending and adding pipe. The two property owners' concern is the existing channel degradation on the intermittently flowing pipe and the expectation that it may get worse as development across Dayton River Road from their properties increases runoff to the culvert. Hennepin County does not intend to include stabilization of this private channel in its CSAH 12 project.

The Commission's engineers and county staff visited the site and observed that the channel is worn and with proposed development will likely get worse. The culvert extension likely will not increase flow, but it will direct it into the opposite bank and increase the efficiency of flow. There are several feet of fall to the River, so with future increased flow continued head cutting will occur, increasing erosion and sedimentation to the River.

Removing trees to encourage bioremediation is unlikely to gain property owner approval, thus it is proposed to stabilize the channel with rock armoring. The estimated cost of this project is \$50,000. The channel erosion is contributing about 2.6 tons sediment and 2.2 lbs TP to the river each year.

2. If this request is for cost share in "upsizing" a BMP, explain how the upsize cost and benefit were computed.

N/A

3. Show total project cost, amount of cost share requested, and the amount and source of matching funds.

The City is applying for a Hennepin County Good Steward Grant to contribute 50% of the cost of the project.

4. What is the project schedule, when will work on the BMP(s) commence and when will work be complete?

Site survey and design – late 2022; Obtain quotes – early 2023; Site work – winter 2023



Culvert and direction of flow